

MANUFACTURERS' RECORD

A Weekly Southern Industrial and Hardware Newspaper.

Vol. XV. No. 21.
WEEKLY.

BALTIMORE, JUNE 29, 1889.

\$4.00 A YEAR.
SINGLE COPIES, 10 CENTS.



MANUFACTURERS' MILLS AND ENGINEERS' SUPPLIES



WOOLLEN & COTTON MACHINERY
SHAFTING HANGERS
PULLEYS OF EVERY VARIETY



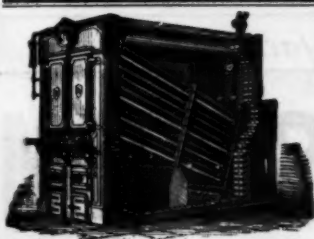
MANUFACTURERS' EVERY DESCRIPTION OF CLOTHING



Milling Outfits for Flour and Meal.

WE MAKE ROLLS AND PORTABLE MILLS COMPLETE.
Manufactory Established in 1851. Pamphlets with Prices Mailed Free.

NORDYKE & MARMON CO., INDIANAPOLIS, IND.



ROOT'S NEW WATER TUBE STEAM BOILER.

Safe, Economical, Durable.

Recently adopted by the BRUSH ELECTRIC LIGHT CO., at Louisville, the EDISON ELECTRIC LIGHT CO., Detroit, and the COLUMBUS EDISON ELECTRIC LIGHT CO., Columbus, Ohio.

Abendroth & Root Manufacturing Co.

28 CLIFF STREET, - - - NEW YORK.

SELLING AGENTS:

CHAR. E. ARBROTH, Esq., 69 Nassau St.,
V. MERRILL, 120 N. Third Street, Phila., Pa.
SMITH & KNAPP, 68 S. Canal Street,
JOHN A. MOORE, 120 Grand Street,
MORTON, REED & CO., Baltimore, Md.

ELEVATORS

Send for Illustrated Circulars.

MORSE ELEVATOR WORKS.

MORSE, WILLIAMS & CO. Successors to CLEM & MORSE

Manufacturers and Builders of HYDRAULIC, STEAM, and FREIGHT ELEVATORS. With most approved Safety Devices.

Offices, 1105 FRANKFURT AVE.; Works, FRANKFURT AVE., WILBY AND SHACKAMON STREET, PHILADELPHIA, PA.

Branch Office, 108 Liberty St., NEW YORK. MORTON, REED & CO., 3 & 5 German St., Agents for Baltimore. Boston Office, 14 High St.

THE NEW INGERSOLL-SERGEANT AIR-COMPRESSOR.

In Design, Material and Workmanship the best in the market. Automatic and Adjustable Regulation for Air and Steam—Cooling by Water Circulation—Thorough and Automatic Lubrication; accomplishing the most economical production of Compressed-Air Power.

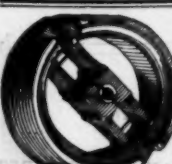
INGERSOLL ROCK DRILLS SERGEANT

Four-Fifths of the Rock on the New Croton Aqueduct was removed by Ingersoll Drills, where the AVERAGE RECORD of Tunnel Progress shown by the Engineers' Tables was 30 per cent. in advance of other drills. Twenty-Four of the Twenty-Eight large Tunnels which have been driven with Machine Drills in this country have employed the Ingersoll Drill. Seventy-Five per cent. of the Metal produced from machine mined ore in the United States during 1888 was mined by Ingersoll and Sergeant Drills.

STONE-CHANNELING MACHINES, COAL-CUTTERS.

THE BULLOCK DIAMOND CORE PROSPECTING DRILLS, and Complete Plants of Mining, Tunneling and Quarrying Machinery.

INGERSOLL-SERGEANT ROCK DRILL COMPANY, 10 Park Place, New York.



THOS. K. CAREY & BROS.

Agents for the Dodge INDEPENDENCE Patent Wood Split Pulleys.

Machinery, Mill and Railroad Supplies.

26 Light Street, Baltimore, Md.

Carrying Car-Load Lots of Assorted Sizes in their Warehouse in Baltimore.

WRITE FOR PRICE-LISTS AND DISCOUNT.



The Milburn Patent Wood Split Pulleys are the Best in the World.

Cotton Gins, Engines and "Self Packing" Hydraulic Presses, Bolders, Gins, Feeders and Condensers.

Write for Illustrated Catalogue and Price List.

MILBURN GIN & MACHINE CO., MEMPHIS, TENN.

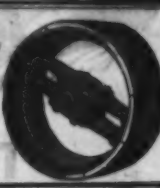


25 to 60 per cent. more power with same belt than iron pulleys.

LIGHT, STRONG AND CONVENIENT.

Every One Guaranteed.

LEONARD & MCCOY, Agents, 118 Liberty Street, New York.
SMITH & COURTNEY, Agents, Richmond, Va.
E. VAN WINKLE GIN & MACHINERY CO., Atlanta, Ga.



FOR SALE.
300 tons selected second-hand 5-lb. Iron Rails, for delivery at Cincinnati or Portsmouth, O.
Address, ROBINSON & ORR, PITTSBURGH, PA.

WE BUY OLD IRON and STEEL RAILS.

FOR SALE.
Rails (all weights), Splice Bars, Bolts, Washers, Switches, &c. Correspondence solicited.
Address, ROBINSON & ORR, PITTSBURGH, PA.

FRANK W. SWETT, MANUFACTURER OF BAND SAWS, 69 SOUTH CANAL ST., CHICAGO, ILL. EVERY BLADE WARRANTED

The Sawyer-Man Electric Co.

(Leased to the WESTINGHOUSE ELECTRIC COMPANY)

510 W. 23d Street, New York.

INCANDESCENT ELECTRIC LAMPS,

**Supplies for Electric Lighting,
Electric and Combination Fixtures.**

CORRESPONDENCE WITH DEALERS INVITED.

Daft Electric Light Company,

115 BROADWAY, N. Y.

ELECTRIC RAILWAYS,

POWER STATIONS,

Stationary Electric Motors.

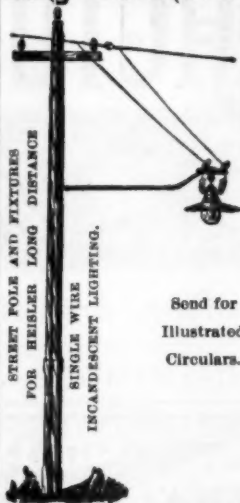
PLEASE MENTION MANUFACTURERS' RECORD.

Heisler Electric Light Co.

809 to 817 S. 7th Street. ST. LOUIS, MO.

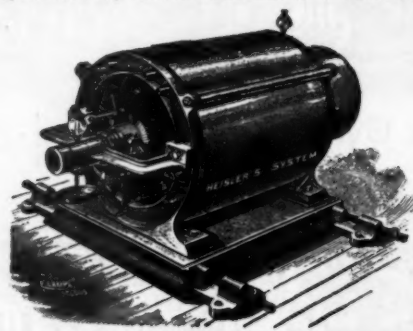
MANUFACTURERS AND PATENTERS OF THE

Long Distance Incandescent Electric Light System.



THE ONLY STRICTLY SERIES INCANDESCENT SYSTEM, especially suited for Central Station business, combining the illumination of the Streets with the Universal supply of Light for all Commercial and Domestic Requirements. The Most Economical System in every respect. Noted for the Brilliance and Beauty of the Light. Having the Simplest Mode of Wiring, the greatest production of C. P., less H. P., and a number of other important advantages.

Over 5,000 of our incandescent Lamps of various Candle Powers have been placed for illuminating the Streets and Boulevards, connected by more than 2,000 miles of live wire circuits.



Send for
Illustrated
Circulars.

Electric Power.

A Monthly Journal devoted to the interests of the Electric Railway and the Transmission of Power by Electricity for Industrial purposes.

The only Journal in the world devoted exclusively to transmission of power.

Its circulation embraces Electrical, Mechanical, Mining, Hydraulic and Civil Engineers, and Officers and Employees of Street and Electrical Railways. Send for sample copy.

SUBSCRIPTION, \$3.00 PER ANNUM.

ELECTRIC POWER PUBLISHING CO.

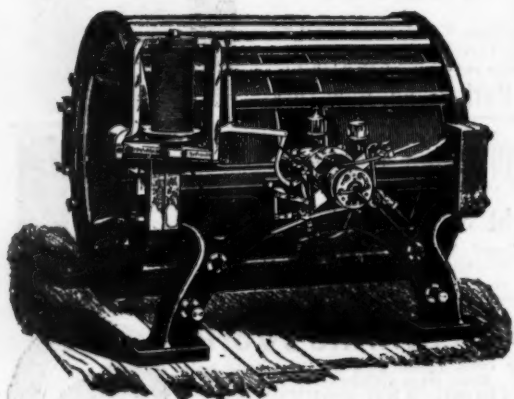
132 Nassau, Cor. Beekman St., New York.

Subscribe to the Manufacturers' Record.

THE · THOMSON-HOUSTON · SYSTEM

Electric Arc Lighting.

DYNAMOS AUTOMATIC IN ACTION,



ARC DYNAMO.

Simple in Construction, Durable and Efficient.

OPERATING FROM 3 TO 50 ARC LAMPS OF 1,200 OR 2,000 CANDLE POWER.

ARC LAMPS,

Single and Double, Plain and Ornamental.

The Thomson-Houston lamps burn with entire freedom from hissing, are perfectly SELF-ADJUSTING and do not require expert attention.

More than 5,500 Arc Lamps in daily use.

The THOMSON-HOUSTON ELECTRIC CO.

620 Atlantic Avenue, BOSTON, MASS.

WALL AND LOYD STREETS, ATLANTA, GA.

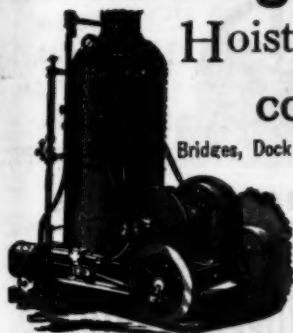
148 Michigan Avenue, CHICAGO, ILL.

215 West Fourth Street, Cincinnati, O.

RIEHLE'S TESTING MACHINES & SCALES.

RIEHLE BROS., Store, 418 Market St. Works 9th above Master, Phila. New York Store, 401 Liberty St.

Hoisting Engines for Mines, Furnace & Factory



Hoisting • Machinery

FOR
CONTRACTORS,

Bridges, Dock Building, Pile Driving and Excavating.

300 STYLES AND SIZES.

OVER 5,000 IN USE.

AGENTS:

MORTON, REED & CO., Baltimore, Md.

MILNER & KETIG, Birmingham, Ala.

• MINE •

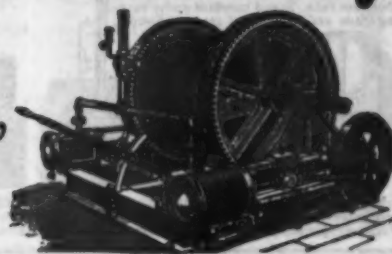
AND

FURNACE HOISTS,

Horizontal Engines

FOR MANUFACTURING.

New Catalogue for 1889 now ready.



LIDGERWOOD MFG. CO.

No. 98 Liberty St.
New York.

BUCKRUS FOUNDRY & MANUFACTURING CO.,
BUCKRUS, OHIO.
STEAM EXCAVATING MACHINERY
FOR EVERY PURPOSE WRECKING CARS ETC.

H. A. ROGERS, 19 John Street,
NEW YORK.

RAILWAY

Machinists' Supplies.

SOLE AGENTS IN THE U. S. FOR

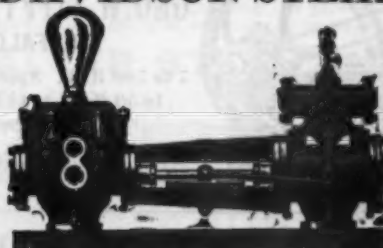
Moncrieff's Scotch Gauge Glasses.

GENERAL AGENT CELEBRATED TANITE EMERY WHEELS.



The M. T. DAVIDSON STEAM PUMP.

Simple,
EFFICIENT,
Reliable,
FOR ALL
PURPOSES
AND
DUTIES.



MADE IN
ALL SIZES,
WHETHER
SINGLE OR
Duplex.
ALSO
COMPOUND
Pumping
ENGINES.

DAVIDSON STEAM PUMP CO., 77 Liberty St., NEW YORK.

THE IMPROVED
FISHKILL CORLISS ENGINE
BUILT BY THE
**FISHKILL LANDING
MACHINE CO.,**
FISHKILL HUDSON.
N.Y.

AMERICAN SUPPLY COMPANY,

Formerly Myron Fish & Co., of Valley Falls, R. I., and Kendrick Loom Harness Co., of Providence, R. I.

—MANUFACTURERS OF—

LOOM HARNESS AND REEDS.

Oak Belting, Lace and Picker Leather, and Dealers in Supplies for Cotton, Woolen and Silk Mills.

Agents for Joseph Noone's Sons'
Roller, Slasher & Clearing Cloths.

—Agents for—

RODDICK'S PATENT IMPROVED OIL CANS.

Calf, Sheep and Lamb Roller Skins, and Roll Covering Tools.



WE HAVE
Unequalled Facilities for Furnishing
Shuttles & Heddle Frames,
WIRE HEDDLES & WIRE GOODS
Of all Descriptions.

—Special Notice to Worsted and Silk Mills.—

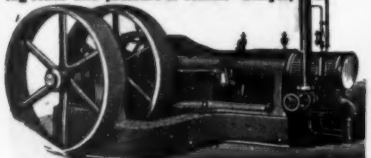
We Manufacture both Worsted and Cotton Machine-Knit Mail Harness for Weaving Fine Worsted and Silk Goods. Also a Full Line of Supplies for Jacquard Looms.

Office and Salesrooms, 10 Exchange Place, Providence, R. I. —FACTORIES:— PROVIDENCE and VALLEY FALLS, R. I.

A. D. LOCKWOOD, Pres. JOHN KENDRICK, Vice-Pres. MYRON FISH, Treas. JOHN A. CARTER, Sec. JOSEPH H. KENDRICK, Gen'l Agent.

BECK AUTOMATIC ENGINE.

For Electric Light, Flour, Cotton, Woolen and Rolling Mill Service and all other purposes requiring power. Economical in Steam Consumption. Does not race. Speed constant under varying loads and pressure of steam. Simple,



durable in construction. Requires no more space than double disc engines. Contracts



takes for complete steam plants, including boilers and all connections, masonry and erection. All work guaranteed. Send for catalogue and full particulars. Also builders of Portable, Vertical and Stationary Engines. Boilers of all styles, and Saw Mills. Address **TATLER MFG. CO., Chambersburg, Pa.**

—) FOR THE LOWEST-PRICED FIRST-CLASS (—)

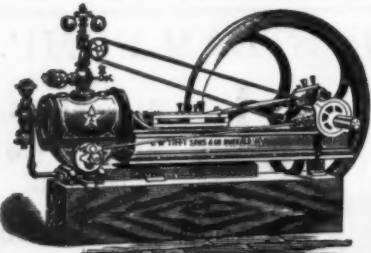
ENGINES & BOILERS

ADDRESS

GEO. W. TIFFT, SONS & CO.
BUFFALO, N. Y.

5 to 500 H. P. Special Stock Sizes 5 to 50 H. P., both Stationary and Semi-Portable.

A few good Second-Hand Engines and Boilers are for sale at an astonishingly low figure. Must be sold to make room for stock. Correspondence solicited. Mention this paper.

**ALEX. K. RARIG & CO.**

COLUMBUS, OHIO,

MANUFACTURERS OF

Automatic Cut-off Engines,

HOISTING ENGINES,

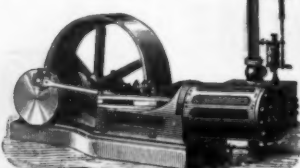
Boilers, Boiler Plate Punches,

ROLLS AND SHEARS.

Clay-Working Machinery

Steam Sewer Pipe Presses,

Socket Pipe, Tile and Fire-Proof Dies, Wet and Dry Pans for Grinding and Tempering Clay for Sewer Pipe, Terra Cotta, Brick and Tile. We furnish complete outfits for Sewer Pipe and Brick Plants. Write for catalogue. Correspondence solicited. Mention this paper.

**SKINNER ENGINE CO. ERIE, PA.**

MANUFACTURERS OF PORTABLE AND STATIONARY

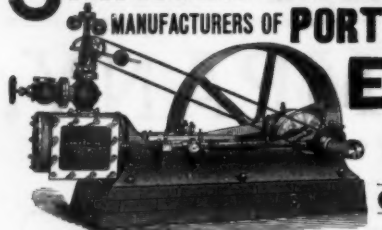
ENGINES AND BOILERS

OVER 3400 IN USE.

SEND FOR CATALOGUE.

MORTON, REED & CO., AGENTS, BALTIMORE, MD.

NEW YORK and NEW ENGLAND OFFICE, C. R. VINCENT & CO., 15 Cortlandt St., N. Y.

**PAYNE HIGH-SPEED CORLISS ENGINE.**

Shaft Governor Combined with Corliss Wrist-Plate.

Economy of Fuel and Regulation equal to anything in use.

B. W. Payne & Sons,

ELMIRA, N. Y.

45 Day Street, New York.

10 S. Canal St., Chicago, Ill.

**JARVIS Patent FURNACE**

For Setting Steam Boilers.

Economy of Fuel, with increased capacity of Steam Power. Like the Siemens Process of Making Steel, it utilizes the waste gases with hot air on top of the fire. Will burn all kinds of waste fuel without a blast, including Slack Coal, Sawdust, Logwood Chips, &c. Send for Circulars.

JARVIS ENGINEERING CO.

J. N. PRATT, Treas. and Gen'l Manager.

61 Oliver Street, BOSTON, MASS.

**SOUTHERN REFERENCES:**

Eagle & Phenix Mfg. Company, Columbus, Ga.
Anniston Mfg. Co., Anniston, Ala.
J. P. King Mfg. Co., Augusta, Ga.
Rose Mining Co., Charleston S. C.
Maryland Pavement Co., Baltimore, Md.
Brush Electric Light Co., Baltimore, Md.
Eitrick, Matoca and Battersea Mfg. Co's., Petersburg, Va.
Rasin Fertilizing Co., Baltimore, Md.
Tanner & Delaney Engine Co., Richmond Va.
Sibley Mills, Augusta, Ga.

Graniteville Mfg. Co., Graniteville, S. C.
Charleston Bagging Co., Charleston, S. C.
P. H. Mayo & Bros., Richmond, Va.
Phosphate Mining Co., Beaufort, S. C.
Brush-Swan Electric Light Co., Norfolk, Va.
Columbus Ice & Refrigerator Co., Columbus, Ga.
Lenoir Manufacturing Co., Lenoir, East Tennessee.
Vanceuse Mill, Graniteville, S. C.
Charleston Electric Light Co., Charleston, S. C.

Southwark Foundry & Machine Company

Philadelphia, Penna.

BOILERS.

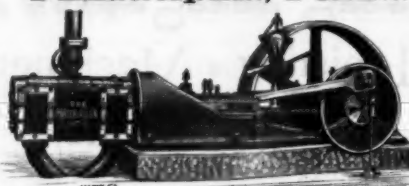
TANKS.

STEAM

HAMMERS.

HEAVY

CASTINGS.



BLOWING AND

REVERSING

ENGINES.

CENTRIFUGAL

PUMPS.

STEAM PUMPS.

SOLE MAKERS OF

PORTER-ALLEN AUTOMATIC ENGINE.

HIGH ECONOMY.

DURABILITY.

CLOSE REGULATION.

ECLIPSE CORLISS ENGINES.

Frick Company, Engineers, Builders,

—WAYNESBORO, PA.—

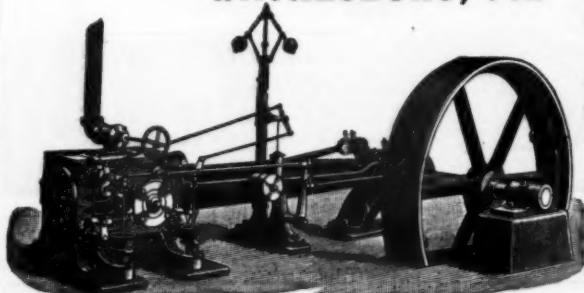
40 to 1,000 H. P. Made.

Condensing, Non-Condensing & Compound.

Send for Corliss Circular.

Ice-Making and Refrigerating Machinery.

Send or Ice-Machine Circular.



Special Automatic Electric Light Engines, Steam Boilers, Traction and Portable Engines, Saw Mills. Send for our General Catalogue.

THE CURTIS PATENT DAMPER REGULATOR

It is the Cheapest and Most Durable. It is the Most Simple, The Most Powerful, The Most Stylish, and will work as Close as any other.

PRICE-LIST, ERECTED AND WARRANTED.

No. 1, for 50 horse-power, \$80. No. 2, for 100 horse-power, \$100.

No. 3, for 150 horse-power, \$150.

Special quotations for five hundred horse-power and upwards.

MANUFACTURED BY

THE CURTIS REGULATOR CO., 160 BEVERLY ST., BOSTON.

GENERAL AGENCIES.

NEW YORK, 109 Liberty st.

PHILADELPHIA, 2035 N. Front st.

MINNEAPOLIS, 210 S. Third st.

CHICAGO, 218 Lake st.

ST. LOUIS, 511 Walnut st.

NEW ORLEANS, 21 Union st.

The Beckett Foundry & Machine Co.

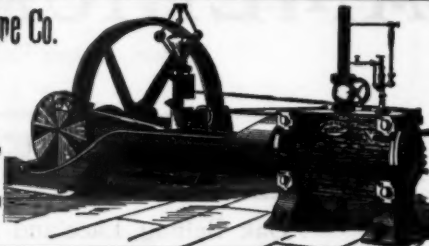
ARLINGTON, N. J.

MANUFACTURERS OF THE

"Munzer" Corliss Engine.

Also Plain Slide Valve Engines, Mining and Milling Machinery and Mine Hoists.

SEND FOR CATALOGUE.

**Russell & Co.**

MASSILLON, OHIO,

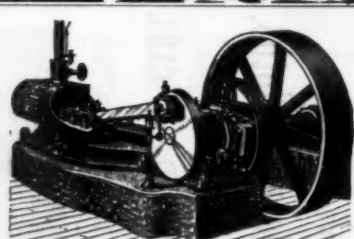
BUILDERS OF

AUTOMATIC ENGINES

BOILERS, ETC.

Complete Power Plants Furnished and Erected.

SEND FOR CATALOGUE.

**Acme Automatic Engine,**

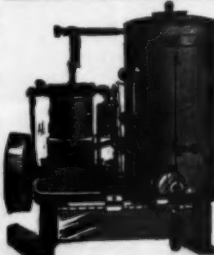
With BRYANT'S Patent Safety Boiler.

Sizes 1, 2 and 4 H. P. Fuel, Kerosene (Coal) Oil, 110° to 120° fire test. No dust, ash, or smoke. No Skilled Engineer required. "Brake" Tests show that 3 1/2 gal. fuel will deliver a full H. P. on belt for 10 hours, in the case of our 1 H. P. Engine and Boiler.

Rochester Machine Tool Works,

BUILDERS, ROCHESTER, N. Y.

SEND FOR CATALOGUE.



Strong, Well Built, Serviceable

12 TO 80

Horse Power.

STEAM ENGINES

Adapted to Heavy, Continuous Work. Every Engine tested under full load. For descriptive circulars, address

Chandler & Taylor, Indianapolis, Ind.



COMPOUND. CONDENSING OR NON-CONDENSING.
16 Sizes, 5 to 500 H. P. Not yet equalled by any form of Engine for
HIGH FUEL DUTY AND SIMPLICITY.

STANDARD. 13 Sizes in Stock.
5 to 250 H. P.
3,000 in use in all parts of the Civilized World.

JUNIOR. 6 Sizes in Stock, 5 to 50 H. P.
AN AUTOMATIC ENGINE CHEAPER THAN A SLIDE VALVE.
Well Built. Economical. Reliable. Over 300 sold the first year.

All the above built strictly to Gauge with Interchangeable Parts.
Repairs Carried in Stock. Send for Illustrated Catalogues.

WESTINGHOUSE ENGINES

The Westinghouse Machine Co.
PITTSBURGH, PA. U.S.A.

SELLING DEPARTMENT IN THE UNITED STATES.

NEW YORK, 17 Cortlandt Street, Westinghouse, Church, Kerr & Co.	CHICAGO, 156, 158 Lake Street, Fairbanks & Co.
PITTSBURGH, Westinghouse Building, Fairbanks & Co.	ST. LOUIS, 608 Chestnut St., M. R. Munkle, Jr. & Co.
DALLAS, TEX., 202, 204 Washington Ave., Fairbanks & Co.	PHILADELPHIA, 313 Union Avenue, Fairbanks & Co.
KANSAS CITY, 1819 Seventeenth Street, Fairbanks & Co.	DENVER, 1819 Capitol Avenue, F. C. Ayer.
OMAHA, 220 S. Main St., Utah & Montana Machinery Co.	PINE BLUFFS, Ark., E. Granite St., Parke & Lacy Co.
SALT LAKE CITY, 31 and 33 Fremont St., Parke & Lacy Co.	BUTTE, MONT., 33, 35 N. Front St., Parke & Lacy Co.
SAN FRANCISCO, 35 College St., The D. A. Tompkins Co.	PORTLAND, OR., 45 S. Prior St., Keating Imp. & Mch. Co.
CHARLOTTE, N. C., 45 S. Prior St., Keating Imp. & Mch. Co.	ATLANTA, GA., C. E. James & Co.
CHATTANOOGA, TENN.,	

ESTABLISHED 1864. INCORPORATED 1888.
WM. A. HARRIS STEAM ENGINE CO.
(Successors to Wm. A. Harris.) PROVIDENCE, R. I.

Builders of HARRIS-CORLISS ENGINES,
FROM 20 TO 2,000 HORSE POWER.

These Engines are carefully built of best materials and in different forms, such as Non-Condensing, Condensing and Compound Condensing. Send for copy of ENGINEERS AND STEAM USERS' MANUAL, by J. W. Hill, M. E. \$1.25. Mention this paper and send for catalogue. WM. A. HARRIS, Pres. & Treas. The D. A. TOMPKINS CO., CHARLOTTE, N. C., Southern Agents.

C. D. MacDOUGALL, Pres. & Treas. A. E. SLOCUM, Vice-Prest. E. B. MOSHER, Secty.

The BIRDSALL COMPANY,
—OF AUBURN, N. Y.—

Stationary, Automatic, Portable and Tractor Engines, Return, Tubular, Locomotive and Steam Heating Boilers, Radiators, Portable Saw and Grist Mills, Shingle Machines, Threshers, Fruit Evaporators, etc., etc.
Branch House, 203 North Street, Moon Building, Baltimore, Md.
FRED. I. MOSHER, Manager.

The Bookwalter Steel & Iron Co.

is now prepared to grant licenses under the Bookwalter, Robert, and other patents owned by it.

Parties desiring licenses to operate under these patents will please state, in their application, for what purpose they design using the process—whether for steel castings, for ingots of dead soft steel, for tool steel, or for ordnance purposes.

BOOKWALTER STEEL & IRON CO.

18 Cortlandt Street, NEW YORK.

THE BABCOCK & WILCOX CO.

AVAILABLE BOOK ON

STEAM

NEW YORK, 107 HOPE ST. GLASGOW, SCOTLAND

FREE ON APPLICATION.

WATER TUBE STEAM BOILERS

BRANCH OFFICES:

- BOSTON, MASS.
- PHILADELPHIA, PA.
- CHICAGO, ILL.
- ST. LOUIS, MO.
- NEW YORK, N.Y.
- ATLANTA, GA.
- HAVANA, CUBA
- MELBOURNE, AUSTRALIA

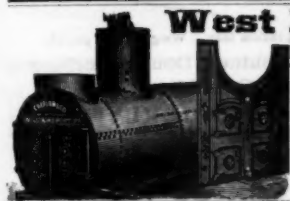


OIL FUEL CRUDE OR KEROSENE.

AUTOMATIC FUEL FEED. AUTOMATIC WATER FEED.
AUTOMATIC ENGINES.

For uniformity of speed, economy of fuel, economy of labor, the "Racine Automatic Engine and Boiler" has no equal. For electric lighting the "Racine Automatic" stands equal, if not superior, to any. For the past year a "Racine" engine, 645 cylinder, has been running with the greatest ease a 150 light to c. p. machine, varying only two revolutions as between load and no load. Being automatic in fuel and water feed, and the engine automatic in its government, it needs no special attendant. Having lighted the fire and gotten up steam, the operator can then attend to other business. We make stationary and marine outfits from 1 to 50 horse-power. Engine sold independent of boilers. We make the "Racine" Pumping Outfits and the "Racine" Crude Oil Burners for any size boilers. Agents wanted in territory not taken. Send for Catalogue E to the

Racine Hardware Manufacturing Co., Racine, Wis.



West Branch Boiler Works

STEAM BOILERS OF ALL KINDS.

Stacks, Tanks, Steam Pipe, Pumps, Inspirators, &c.

All kinds of Valves, Steam and Engine Supplies, &c.

E. KEELER COMPANY,

WILLIAMSPORT, PA.

The Eberman Automatic Boiler Feeder

THE BEST AND MOST RELIABLE MADE.

The U. S. Circuit Court has decided that the "Eberman Boiler Feeder" does not infringe the Hancock Patent. Specially adapted for TRACTION AND PORTABLE ENGINES. Works from 15 to 150 pounds of steam without any adjusting. A Perfect Automatic Re-Starting Boiler Feeder. No valve in suction pipe. To start, open valve in steam pipe. To stop, close valve in steam pipe. For sale by dealers generally. A trial is all we ask. Manufactured by

J. REGISTER & SONS Baltimore, Md.



FLORIDA
Heating Apparatus
FOR STEAM OR WATER.
Over 6000 in ACTUAL USE
PIERCE, BUTLER & PIERCE MFG. CO.
SYRACUSE, N. Y., U. S. A.

BALL AUTOMATIC
CUT OFF ENGINE
MADE ONLY
BY
THE BALL ENGINE CO
ERIE, PA.

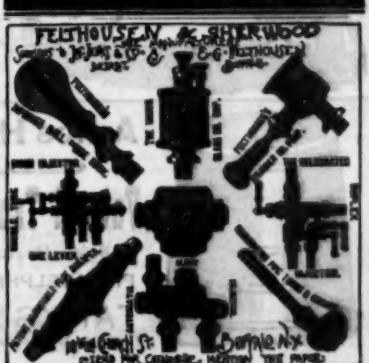
The Stratton
Separator
DELIVERS
Dry Steam

To your engine or for any other purpose, no matter HOW LONG YOUR STEAM PIPE, or how much your Boiler may Prime. An absolute safeguard. A source of economy.

The STRATTON SEPARATOR CO.
32 Cortlandt St.
NEW YORK.

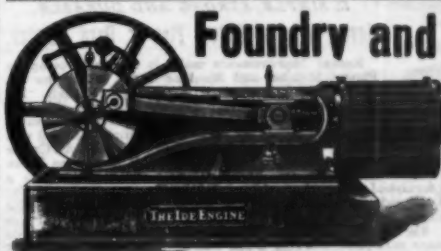


J. T. FOLEY & CO.
Atlas Boilers and Engines.
NASHVILLE, TENN.



Foundry and Machine Dept.

Harrisburg Car Manufacturing Co.
HARRISBURG, PA.



Manufacturers of the Ide Automatic Engine. Compound and Standard patterns. Also builders of boilers and complete power plants. New York Office, Messrs. Fleming & Kimball, 171 Day street. New England Office, Messrs. John Ford, Jr. & Co., 70 Kilby street, Boston. Baltimore Office, Messrs. Thomas K. Carey & Bro., 46 Light street, Baltimore.

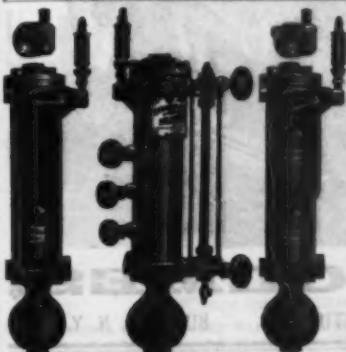
Morrison's Patent Self-Lubricating Packing.



Best for Water or Steam. Best for Ammonia.
O. FICK OF CITIZEN'S RAILWAY CO.,
ST. LOUIS, February 16, 1898.

ROBERT MORRISON, Esq.:
Dear Sir—In reference to your Packing, I desire to say that having used it on Engines and Pumps at the St. Louis Elevator, and at the St. Louis Cable & Western Power Plant, and am at present using it on two 200 horse power Corliss Engines in valve stems and piston rods at the Citizens' Railway Co. Power Station, all of the above under severe service, that it has given me better satisfaction than any Packing that I have ever used. Respectfully yours,
H. A. FOLMER, Chief Engineer.

PAGE BELTING CO., BOSTON, MASS.
EASTERN AGENTS, CONCORD, N. H.
ROBERT MORRISON, Sole Manufacturer, ST. LOUIS, MO.



BOILER EXPLOSIONS are mostly caused directly or indirectly by low water. A boiler may be inspected and found safe at 100 pounds pressure to-day and weakened by low water to sight so as to be unsafe at 50 pounds pressure to-morrow, and may ultimately explode with plenty of water and ordinary pressure. The

Reliance Safety Water Columns prevent this weakening, save repairs, prolong the life of the boiler, protect life and property and reduce operating expenses. They have been on the market for five years and are endorsed by thousands of users. They are no experiment. Get the best. Send for Illustrated Price List. Every Column Warranted.

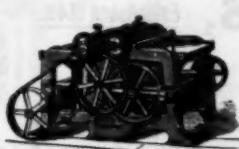
RELIANCE GAUGE COMPANY,
Sole Manufacturers,
Argyle Building, Cleveland, Ohio.



JENKINS' STANDARD PACKING
The ORIGINAL UNVULCANIZED PACKING, CALLED THE STANDARD. As it is the Packing by which all others are compared. Accept no packing as JENKINS' PACKING unless stamped with our "Trade Mark."
JENKINS' BROS.
71 John St., New York. 21 N. Fifth St. Philadelphia.
105 Milk St., Boston. 54 Dearborn St., Chicago.



No. 3½—Pacific Planer and Matcher.



No. 4½—Smoothing Planer.



Horizontal Borer.



No. 2—Self-Feed Rip Saw.



No. 6—Molding Machine.



No. 2, Foot Scroll Saw.

W. H. DOANE, Pres't.

J. A. FAY & CO.

D. L. LYON, Sec'y.

CINCINNATI, OHIO.

Manufacturers of
—PATENT—

Improved Wood-Working Machinery

OF EVERY DESCRIPTION,

For Planing Mills, Sash, Door and Blind Shops, Furniture, Carriage and Wagon Factories,
Spoke, Wheel and Agricultural Works, Car Shops, etc.

Every Machine Tested and Warranted.



No. 3, Band Saw.



Hand Planer and Jointer—8, 12, 16, 20 and 24 inches wide.

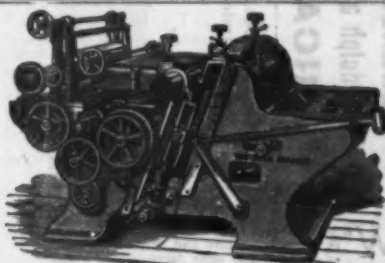
THE EGAN COMPANY,

228 to 248 W. Front Street, CINCINNATI, OHIO.

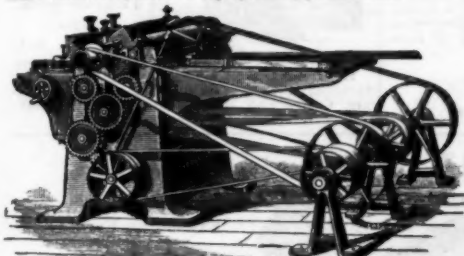
MANUFACTURERS OF

Wood-Working Machinery

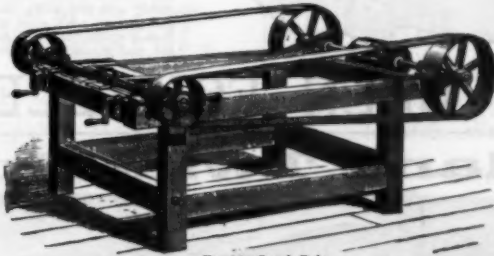
The Most Complete Line in the United States. Complete Outfits Furnished.
Write for catalogue and prices.



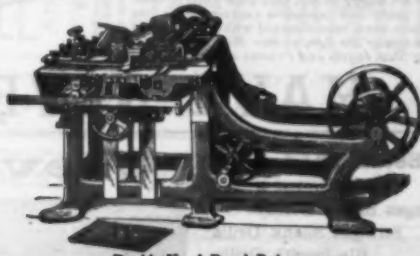
Double Cylinder Endless Bed Surfer with Feeding-Out Rolls



No. 3½ Planer and Matcher.



Double Sand Belt.



Double-Head Panel Raiser.

THE STANDARD "HOT BLAST" LUMBER DRYER.



Recent improvements in "HOT BLAST" apparatus make it the most practical and EFFECTIVE in use.
Satisfaction Guaranteed. Payment conditional on fulfillment of guarantee.

Write us before placing your order. It will pay you to do so.
PRICES LOW. TERMS LIBERAL.

Estimates and detailed plans furnished on application.

The Standard Dry Kiln Company,

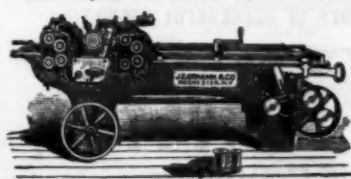
Patentees and Sole Manufacturers,

1224 to 1230 West Main Street, LOUISVILLE, KY.

J. S. GRAHAM & CO.

261 LYELL AVENUE, ROCHESTER, N. Y.

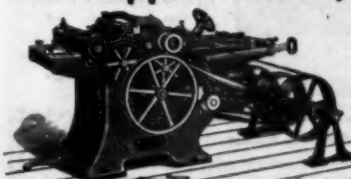
Manufacturers of Planers and Matchers, Surfers, Timber Planers, Resawing Machines, Gang Rippling Machines, Self-Feed Saw Tables, Moulders, Pony Planers, Etc.



SEND FOR
PRICES



The Clipper Planer, Matcher AND Moulder.



The Best and Most Convenient of its Class on the market. Cut Gearing and all our recent improvements. Cylinder is Double Belted. No Extra Attachment Required for Working Moulding. Weight 3,000 pounds. Write for Special Price.

We are Builders of HIGH-GRADE

Wood-Working Machinery.

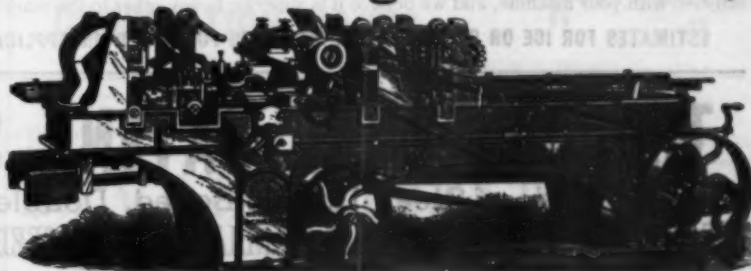
SEND FOR ILLUSTRATED CIRCULARS.

INDIANA MACHINE WORKS, Fort Wayne, Ind.

S. A. WOODS MACHINE CO.

Manufacturers of and Dealers in

Wood-Working Machinery,



Planing and Moulding Machines a Specialty.

Send for new illustrated Catalogue just issued.

Warerooms—91 Liberty Street, NEW YORK. 111 High Street, BOSTON. 61 S. Canal Street, CHICAGO. Works—South Boston, MASS.

To Secure

SOUTHERN TRADE

ADVERTISE IN THE

MANUFACTURERS' RECORD

Established 1840.

HENRY DISSTON & SONS,

Established 1840.

Incorporated,

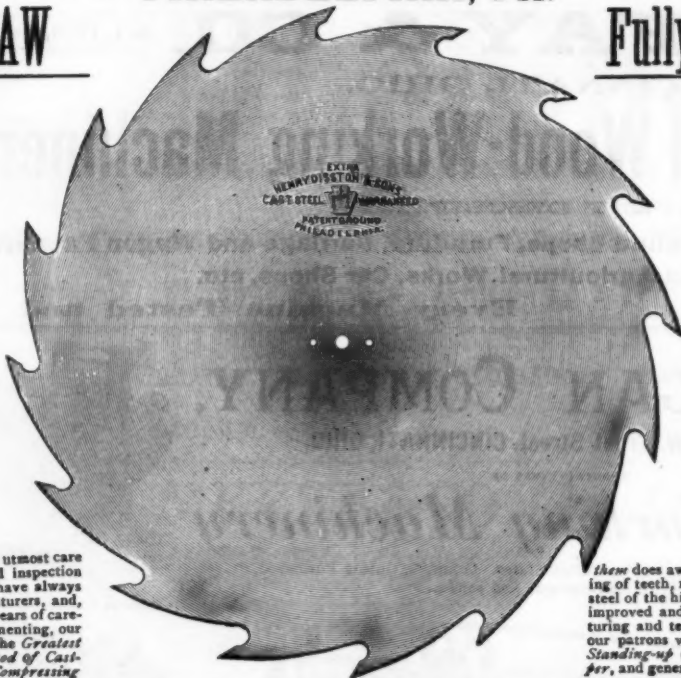
Keystone Saw, Tool, Steel and File Works,

PHILADELPHIA, PA.

Every SAW**Fully Warranted.**

BRANCH HOUSE:
Cor. Randolph and Market Streets,
CHICAGO, ILL.

Send for Price List and Discount Sheet and
New Illustrated Edition of Files.



BRANCH HOUSE:
923 West Main Street,
LOUISVILLE, KY.

Send for New edition of Lumberman's Hand
Book and Sawyer's Pocket Edition.

We have always taken the utmost care
in the manufacture and inspection
of our steel and saws, have always
headed the list of saw manufacturers, and
we are happy to say, that after years of care-
ful study and expensive experimenting, our
efforts have been crowned with the *Greatest
Success of the Age, as our Method of Cast-
ing Steel Ingots and Process of Compressing*

*then does away with the splitting and spal-
ling of teeth, makes a hard, tough and elastic
steel of the highest quality, which, with our
improved and patented process of manufac-
turing and tempering enables us to furnish
our patrons with saws that for Toughness,
Standing-up Quality, Uniformity of Tem-
per, and general superiority,*

HAVE NEVER BEEN EQUALLED.

Established 1874.

MANUFACTURERS OF

Taper Shank Drills,
Straight Shank Drills,
Blacksmith Drills,
Bitstock Drills,
Straight Fluted Drills,
Machine Bit Drills

Cleveland Twist Drill Co.

Send for Catalogue.

OFFICES—

Cor. of Lake & Kirtland Sts., Cleveland, O.
101 Chambers Street, New York.

Write for Discounts.

MANUFACTURERS OF
Self-feeding Reamers,
Expanding Reamers,
Shell Reamers,
Stay-bolt Taps,
Taper Reamers

—DAVID BOYLE,—**521 W. Monroe Street, Chicago, Ill.**

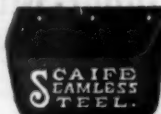
PATENTEE AND BUILDER OF THE

**BOYLE ICE MACHINE
AND REFRIGERATING APPARATUS.****The Most Simple, Reliable, Durable and Economical in Existence.****WHAT PEOPLE SAY.**

"I consider it the greatest improvement that has ever been made in breweries."—FRED. PABST, President Ph. Best Brewing Co. "We are thoroughly
satisfied with your machine, and we believe it is superior to any other in the market to-day."—HENRY G. KUERT, President Atlanta City Brewing Co., Atlanta, Ga.

ESTIMATES FOR ICE OR REFRIGERATING MACHINES FURNISHED ON APPLICATION.**REFER TO OVER 131 MACHINES IN SUCCESSFUL OPERATION.****The CALDWELL PATENT SPIRAL STEEL CONVEYOR,****Made of Steel, Double Bolted, Double Collared and Extra Strong Couplings.****SPECIALLY ADAPTED TO USE IN HANDLING COTTON SEED AND ALL ITS PRODUCTS, FERTILIZERS AND PHOSPHATES.****Dealer in Mill and Grain Elevator Supplies.**

Can Ship from Pittsburgh or Chicago.



THIS BUCKET is of
one piece steel. No
cam. No Rivets. Light,
strong, durable. Dis-
charges well at high
speed.

H. W. CALDWELL,**131 and 133 West Washington Street,
CHICAGO, ILL.**

**EMPLOYERS WILL PREVENT LOSS
BY ACCIDENTS TO
WORKMEN BY INSURING WITH**

Employers' Liability Assurance Corporation.

Agent, G. W. S. HALL, Baltimore
Firms with pay rolls of
over Sixty Million Dollars now protected

T.K. EARLE MFG. CO.
PATENT
NEEDLE POINT
CARD CLOTHING.
AND ALL OTHER VARIETIES
WORCESTER, MASS.

The Fall River Spool & Bobbin Co.
OF FALL RIVER, MASS.
Manufacture every variety of
SPOOLS AND BOBBINS.

Established 1846.

**THE BROWN
COTTON GIN**

COMPANY,
New London, Conn.

Manufacturers of **COTTON GINS,**
FEEDERS, and CONDENSERS;
LINTERS of the Latest Improved
Pattern, with Automatic Feed, for
OIL MILLS; RIBS, SAWS and
ALL other REPAIRS for Cotton
Gins OF ALL MAKERS.

All work guaranteed. Write
for prices and particulars.
Address as above.



J. A. V. Smith
MANCHESTER, N. H.
Has made more
Steel Fliers

than the aggregate of all
other flier makers.
Has obtained more pat-
ents on Fliers than any
other party.
Can make Fliers with the
use of his patents far su-
perior to any other make.
He incorporates into
every Flier one or more
improvements patented.
Has the best facilities.
Most skilled workmen.
Can make a Flier cheaper.
Guarantees satisfaction.
TRY HIM.

OILLESS BEARINGS

Loose pulleys fitted with Met-
allized Flanged Bushes—like cut
—run for years without oil. Its
cleanliness, and obviating the
danger of fire from overheated
journals, improperly lubricated,
especially commends its use in
cotton mills. Send for report
of Col. Samuel Webber and the
testimony of prominent fabric
manufacturers on this subject.
North American Metaline Co., 37 Bleecker St., N.Y. City.



The Wood Cotton Gin.



For Ginning Sea Island and other
Long Staple varieties.

It does the work rapidly and without break-
ing the staple. We back our recommendations
with a warranty.

JOHN HEATHCOTE,
Sole Manufacturer,
Corner Eddy and Friendship Streets,
PROVIDENCE, R. I.
Send for Descriptive Circular.

**The Osborn
COTTON GIN
Lubricator.**

PATENTED.

Consists in the application of oil to cotton
being ginned. The quality of the cotton
is thereby improved. The friction of the
ginning operation is reduced. There is less
breakage of the fibre, and consequently a
greater average length of staple. The
gin saws are prevented from gumming,
gin cutting is obviated and the liability of
fire from friction is diminished. The above
are some of the advantages resulting from
the use of this improvement. Territory
for sale. Agents wanted. Apply to

C. H. MERRY,
YAZOO CITY, MISS.

R. M. JOHNSON,
WHEATLAND, VA.

Manufacturers' Agent and Dealer in Corliss,
Automatic Cut-off and Plain Slide Valve

Steam Engines and Boilers.

Saw Mills, Machinists' Tools, Wood-working
Machines, Mining, Brick, Ice, Grist Mill, Can-
ning and Dairy Machinery a Specialty.
Complete Outfits Supplied at Lowest Prices.
Correspondence solicited.

**Cotton and Woolen
MACHINERY.**

50 Crompton Fancy Cotton Looms, nearly
new, 36 inch reed space, for 12 Harnesses,
4 boxes at one end, 1 at the other.

My Store Houses here have over 2 ACRES of
storage, which is covered with good ma-
chinery, including nearly full systems for Cot-
ton and Woolen Mills.

■ **JEREMIAH CLARK,** ■
Lowell, Mass. Office, 63 Dutton St.

To Manufacturers

Desiring a Staple Article on Royalty or
Shop Right. For particulars of the "Land-
is Patent Steam and Hot Water Radi-
ator" address **EZRA F. LANDIS,**
LANCASTER, PA.

Subscribe to the **MANUFACTURERS' RECORD.**
Price \$4.00 a year, or six months for \$2.00.

CROMPTON 1888 WOOL COMBS.
CROMPTON LOOM WORKS.
WORCESTER, MASS.
COTTON, WOOLEN, SILK.
TAPE & CARPET LOOMS.

Dyeing, Drying and Finishing Machinery

FOR COTTON WARPS AND PIECE GOODS.

H. W. BUTTERWORTH & SONS,
PHILADELPHIA, PA.

The Brown & King Supply Co.
MANUFACTURERS OF
COTTON MILL SPECIALTIES.

Roller Covering, Loom Pickers and Strapping.

Dealers in Roller Covers, Stock and Tools; Cotton and Woollen Mill Supplies.

Full Line "Hick's" United States Standard Ring Travelers, Mill Wire Goods,
Spring Cotters, Belt Hooks, Lacing, &c., kept constantly on hand.

Wrought Iron Pipe Fittings and Brass Goods. Southern Agents for the
celebrated "B. C. & D." Oak Tanned Patent Lap Belting, Galvin Compound
Wedge Gate Valve, Imhauser's Watchman Time Detectors, Diamond Emery
Wheel Machine Co., &c.

Office and Salesroom, No. 73 & 75 S. Broad Street, ATLANTA, GA.

• **WATERS & GARLAND,** •
GENERAL MILL AND FACTORY SUPPLIES

Belting, Packing, Hose, Lace Leather, Wood
Split Pulleys, Pipe and Fittings, Inspirators,
Cotton Waste, Valves, Steam Gauges, &c.

433 MAIN STREET.

Write for Catalogue.

Louisville, Ky.

EASTON & BURNHAM, PAWTUCKET, R. I.
SPINDLE MAKERS AND MACHINISTS.
All kinds of Spindles Used in the Manufacture of COTTON, WOOL and SILK.
Builders of Improved Upright Spoolers.
TO SPOOL FROM COP, SKIN, OR BOBBIN.

W. A. RICHARDSON & CO.
MANUFACTURERS OF STANDARD MEASURING
CLOTH FOLDERS
For Print and Dye Works, Bleacheries, Cotton, Singham, Delaine Mills, Etc.
P. O. Box 504.
WORCESTER, MASS.

• **AMERICAN COTTON MACHINERY.** •
PETTEE MACHINE WORKS,
NEWTON UPPER FALLS, MASS.

MAKE A SPECIALTY OF

REVOLVING FLAT CARDS, Latest Pattern.
COMBINATION CARDS, " "

Arranged with Collers or for Railway Heads.

• **LOW PRICES.** •

CORRESPONDENCE INVITED.

PLANS OF CARD ROOMS FURNISHED

E. VAN WINKLE & CO.
ATLANTA, GA., and DALLAS, TEX.

MANUFACTURERS OF



Cotton Gins, Feeders

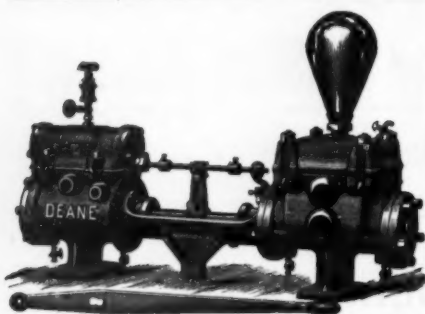
Condensers and Presses,

COTTON SEED OIL MILLS,

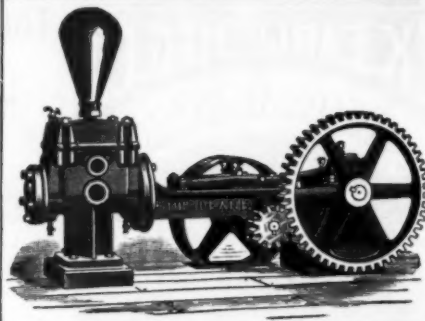
SHAFTING, PULLEYS, WIND MILLS, TANKS, PUMPS, Etc.



Advertise in the **MANUFACTURERS' RECORD.**



THE DEANE STEAM PUMP CO.
HOLYOKE, MASS.
 MANUFACTURERS OF
Steam and Power Pumping Machinery,
FOR ALL PURPOSES.
MORTON, REED & CO., Agents, BALTIMORE, MD.
 Birmingham Office and Warerooms: No. 6 SOUTH 20TH STREET.
 Send for New Illustrated Catalogue, No. 23.



WORTHINGTON STEAM PUMPS

SOUTHERN SELLING AGENTS:

THOS. C. BASSHORE & CO., Baltimore, Md.
 KENTUCKY MACHINERY CO., Louisville, Ky.
 W. H. PERRY'S MACHINE WORKS, Nashville, Tenn.
 LIVERMORE FDRY. & MACH. CO., Memphis, Tenn.
 WALTER T. FORBES, Atlanta, Ga.

SEND FOR ILLUSTRATED CATALOGUE

HENRY R. WORTHINGTON
NEW YORK.

SOUTHERN SELLING AGENTS:

SMITH & COURTNEY, Richmond, Va.
 MECKLENBURG IRON WORKS, Charlotte, N. C.
 E. V. WHITE & CO., Norfolk, Va.
 M. SCHWARTZ, New Orleans, La.
 F. W. HEITMANN & CO., Houston, Texas.

Boston

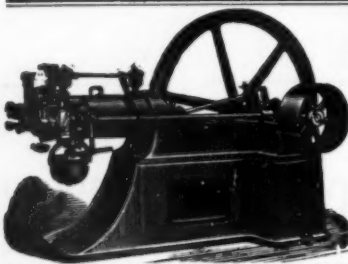
Philadelphia

Chicago

St. Louis

St. Paul

San Francisco



Over 18,000 in Use. **Otto Gas Engine** 30 to 75 per ct. less Gas consumption than ANY OTHER ENGINE.

Working Without Boiler, Steam, Coal, Ashes or Attendance.

Started instantly by a Match, it gives full power immediately. When stopped, all expense ceases.

Guaranteed to Consume 25 to 75 Per Cent. less Gas than any other Gas Engine Doing the same Work.

No explosions, no fires nor cinders, no gauges, no pumps, no engineer or other attendant while running. Recommended by insurance companies. UNSURPASSED IN EVERY RESPECT for hoisting in warehouses, printing, ventilating, running small shops, &c. Sizes: 1 to 25-Horse power.

Branch Office, 151 Monroe St., Chicago, Ill.

OTTO GAS ENGINE WORKS, Schleicher, Schumm & Co. 33d & WALNUT STS. PHILADELPHIA.

SOUTHERN MILLS SHOULD NOT HAMPER

their natural advantages by the use of inferior machinery. Use none but the RABBETH SPINDLE. We make the highest grade of Warping, Spooling and Twisting Machinery on the market. Keep note of the improvements that we are constantly introducing.

GEO. DRAPER & SONS, HOPEDALE, MASS.



CLEVELAND CITY FORGE & IRON CO. {Cleveland, OHIO.} The Best & Cheapest Pressed Wrought Iron Turnbuckles.

Shafting, Hangers and Pulleys {For Mills and Factories of every description.

Flour and Corn Mill Outfits Complete. {Highest Product Guaranteed.

Over 1,000 of our Roller Mills in use.

Over 8,000 of our Portable Grist Mills in use.

We offer a Complete Mill and Sheller for \$115.00

Adapted to any kind of power. A boy can run and keep it in order.

NORDYKE & MARMON COMPANY, INDIANAPOLIS, IND.

Correspondence Solicited.

Write for pamphlet, "Mills and Milling."



SPINCTER GRIP
 OFFERING STEEL GALVANIZED
 1882, '85, '86, '88
 For Suction, Water, Steam, Gas, Air, Acids and for every purpose to which a hose can be applied.

WE GUARANTEE
 every foot sold to withstand constant service for such longer period as to render its actual cost much less in the end.

Every wind of the wire can be cut without Loosening or Uncoupling.

Resistance to great pressure. Unobstructed flow of water.

Increased flexibility and perfect protection are some of its advantages.

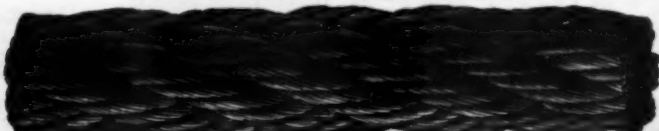
The making, vending or use of any Serviceable Armored Wire Bound Hose not of our Manufacture is an infringement on one or more of our Patents, and any violation will meet with instant prosecution. Brass Plates mark each coil and admonish Infringers, whether evil-minded or ignorant.

Waterbury Rubber Company, 49 Warren Street, New York.
 Sole Manufacturers and Proprietors.

WASHBURN & MOEN MFG. CO., WORCESTER, MASS.

MAKERS OF IRON AND STEEL

MANUFACTURERS OF



Iron, Steel and Copper Wire, Wire Rope, Barbed Wire. Chicago Warehouse, 107 Lake St. New York Warehouse, 16 Cliff St.

Manufacturers' Record.

PUBLISHED EVERY SATURDAY BY THE
MANUFACTURERS' RECORD CO.

R. H. EDMONDS, EDITOR.
WM. H. EDMONDS, BUSINESS MANAGER.

OFFICE,
COR. EXCHANGE PLACE AND COMMERCE STREET,
BALTIMORE.

BRANCH OFFICE, LOUISVILLE, KY.

NEW YORK OFFICE, - - 133 Nassau Street.

THOMAS P. GRANTY, Southern Staff Correspondent.
Headquarters at FLORENCE, ALA.

SUBSCRIPTION \$4.00 A YEAR.

BALTIMORE, JUNE 29, 1889

WHEN the leading iron and steel makers of Great Britain invest a cool \$10,000,000 in the development of a new iron and steel town, in the South, it means a great deal for this section. That is what is being done at Middlesborough, Ky., where \$4,000,000 cash has already been paid out and about \$6,000,000 more subscribed for additional investments. Even these immense sums are to be followed by still greater developments.

ONE of the leading business men of Texas, prominently identified with many important enterprises for the development of that State, who is now in Boston, in writing to the MANUFACTURERS' RECORD regarding two leading editorials on Texas and its future, which have recently appeared in this paper, says:

The two last editions of the MANUFACTURERS' RECORD have done more good for Texas in New England than she has received from any other source in the last six months. With conservative investors we have but simply to state that the MANUFACTURERS' RECORD endorses our statements to receive respectful consideration.

THE Pennsylvania papers are rapidly coming to the conclusion that it is useless, as Col. McClure, of Philadelphia, says, "to war with destiny," and one after another is admitting that the iron trade of the country is to center in the South. The Philadelphia Telegraph, says:

"The Southern iron men seem to be enjoying the situation. While the Pennsylvania iron makers are finding it hard to keep their heads above water with prevailing low prices and downward tendencies, the Chattanooga and Birmingham manufacturers are doing well. * * The center of iron industry in this country ten years hence may be transferred from Western Pennsylvania to East Tennessee and Northern Alabama."

GOOD progress is being made in constructing the extensive iron and steel ship-building yard previously reported as being established at Newport's News. Mr. C. P. Huntington and others, who are building this plant, will invest about \$1,000,000 in it, including the new dry-dock lately opened, and employment will be given to about 1,000 hands. The establishment of this enterprise for building iron and steel steamships but emphasizes the Southward march of all industrial progress.

A New Danger to Northern Iron Interests.

Elsewhere in this issue of the MANUFACTURERS' RECORD mention is made of the sale of 200 tons of bar iron made by the Roanoke Rolling Mill to the Baldwin Locomotive Works, of Philadelphia. The South, no longer content to sell its pig iron, is now going into the manufacture of the finished product for Northern markets. This opens a new field for development. Bearing upon this subject the American Manufacturer & Iron World, of Pittsburgh, discusses a letter from an Ohio rolling mill manager, who has lately been investigating Southern furnaces and rolling mills. Referring to three points made in this letter, as to the efficiency of labor in Southern rolling mills, the future competition of Southern with Northern rolling mills and the low cost of iron production in the South, the Manufacturer says:

"The latter, which in most discussions of the future of the South, is made the important point, is really a matter of minor importance as compared with the other two. Of course, cost of pig iron is an element in determining the future of any iron producing region, but it is only one element. The efficiency of labor, and the fact that the rolling mills of the South promise in the near future to be vigorous competitors with the Northern mills for business, are points of greater importance, because they are more pressing and mean more than the mere fact of cheap production of pig iron.

The view expressed as to the efficiency of labor in the South, viz: that the colored labor, which must be the chief dependence of the furnaces and mills of that section, is, both in the rolling mills and at the blast furnaces, fully as efficient as the white labor, is not the usually accepted belief in the North. It is a fact, however, one that has been demonstrated in Pittsburgh itself, that colored men do make as good puddlers as white men, and the universal testimony of the managers of rolling mills and blast furnaces in the South is, that while there are grades of colored labor, as there are also in white labor, yet it is possible in the South to secure as good and economical work at both rolling mills and furnaces from colored men as it is from white men. This is a fact of no small importance to the future iron industries of that section.

The second statement, viz: That the rolling mills of the South will be vigorous competitors with the North for business, is a fact of the greatest significance. * * *

It is true, however, that some rolling mills in the South have shown remarkable profits in the last year or two. It is stated that on a capital stock of \$500,000, the Birmingham Rolling Mill Co. cleared \$150,000 during the year ending April 1, 1889.

Now, if the rolling mills of the South are to be, in the near future, vigorous competitors for business with the mills of the North, the real iron era of the South is just beginning, for it is not the production of pig iron in a given locality, but its conversion into the higher forms, that benefits that locality to the greatest extent.

Now, if in addition to this, one step more is taken, and the South begins the production of steel, as it can if it takes advantage of what is evidently to be the chief movement in the very near future, in the development of the iron and steel trades of this country, viz: the production of basic steel by the open-hearth process, the South will have a future open before it in connection with the iron and steel trades that up to this time, notwithstanding its enormously

increased production of pig iron, it has not secured.

These statements are but in harmony with the many predictions of the MANUFACTURERS' RECORD that the South would first invade Northern markets with the lower grades of manufactured goods, pig iron, coarse cotton goods and the like, and that these would soon be followed by the higher quality of finished products. When a Virginia rolling mill furnishes bar iron to Philadelphia locomotive works, and a Georgia factory secures a \$10,000 contract in Boston for iron railing in competition with the leading manufacturers in the country, the signs of the times are so plain that no wise man can afford to ignore them. Southward the star of industrial empire takes its way.

How to Build up a Town.

The New Orleans Times-Democrat makes the following very truthful remark about how to build up Southern towns, and we commend it to the attention of our readers in the South, especially to those who are seeking to develop industrial towns:

Nine years ago, Chattanooga, Tenn., raised a large sum of money for the purpose of advertising its advantages. The money was well spent, although it did not bring in an immediate return. It made the town talked about, induced capitalists and investors to go there and examine its advantages; and as it was built on solid foundations, these visits resulted in large investments and immigration. The results is seen to-day in a city of nearly 50,000 people where nine years ago there were but 12,000, and possessing hundreds of new and profitable industries. Chattanooga has proved what great advantages come from advertising; and every Southern city will reap similar rewards from making known its resources. We have noticed a disposition on the part of some of them to expect too immediate returns from an investment of this kind. They expect to see capital and immigrants pouring in the very moment the appeal for them is made. Chattanooga has learnt better, has discovered that it takes some years for this advertising to have any effect, but that if the advantages of a town are really all it claims it need have no fear that capital will not ultimately find it and build it up. Chattanooga was one of the first of Southern cities to advertise: it is consequently one of the first to secure the benefits of advertisements.

SAMUEL R. LOWERY, of Birmingham, Ala., a very intelligent colored man who has for some years devoted his time to silk culture with a view to the development of this industry in the South, is now trying to raise \$5,000 to purchase looms for this work. He has been very successful in producing the raw silk, and is highly commended and endorsed by Senator Morgan and other leading men who have personally known him for many years. His object is to develop at Birmingham a silk-making industry in which the colored people can engage. We believe that the enterprise is worthy of the practical aid of those who desire to develop this important industry in the South, and thus furnish employment to many women and children who are now forced to remain idle.

No Danger to Southern Cotton.

Mr. Henderson, commissioner of agriculture for the State of Georgia, recently sent packages of sea island and "peerless" cotton seeds to Australia, where an attempt is to be made to raise cotton. On the strength of this incident, several papers in the South express the fear that Australia is to become a great cotton producing country in the near future. We venture to suggest to these papers a little study into the subject before jumping at any such conclusion.

We believe it impossible to raise cotton in Australia in competition with the South, as there is not arable land enough to spare unless very extensive and costly irrigation works are built. These the Australian government is not liable to build for many years to come. But even if these works were built, the South would have nothing to fear, but on the contrary, should extend congratulations that Australia was just beginning to approach the South in fertility. Australia is not an agricultural country. This is shown by the fact that the wheat crop last year in New South Wales and Victoria was from two to four bushels to the acre, and that in any year eight bushels is a very large yield.

The history of the many attempts to raise American cotton in other parts of the world is a series of failures. Some years ago England was at large expense in attempts to introduce this cotton into India, or to engraft its good qualities upon the Indian plant, but the seeds refused to grow into thrifty plants, and imported plants declined to transmit their good qualities to the Indian plant. It was predicted at that time that India, with her cheap labor, would swamp the South. The South has too many resources and too much energy to be swamped by the competition of any part of the world.

A FEW weeks ago the MANUFACTURERS' RECORD announced the incorporation at Newark, N. J., of the "American Cotton-seed Oil Co.," with a capital stock of \$1,000,000. We have been unable to secure from any one connected with the enterprise any facts as to whether this is a part of the Cotton Oil Trust or whether it is some entirely new scheme, but it looks as though it is a part of the Trust. A number of large mills heretofore owned by the Trust have been transferred to this new company—the reports saying sold—but whether they were bona fide sales or not seems to be unknown. Among these reported "sales" were one mill at Houston, Texas, \$300,000; one at Dallas, \$220,000; one at Galveston, about \$275,000, and one at Corsicana, which has been idle for 3 years, \$64,000. So far as reported all the sales have been of Texas mills. The question now is: What is the American Cotton-seed Oil Co.? Is it a child of the Trust, or is it an independent concern?

An Excellent Idea.

One day last week the pretty town of Walton, N. Y., was visited by many farmers, with their wives and daughters, who assembled to learn something new about cows and butter making. The State of New York has many dairies, which supply milk, cream and butter to city consumers. It has also a dairy commissioner, and a statute law (No. 298) providing for the holding of forty annual dairy conferences. The legislature appropriated \$40,000 to meet the expenses of these practical schools, for such they are, with two well-known experts for instructors. The object lessons begin with the cow as the foundation of the business, and include her food and treatment as well as the most approved methods of handling her products, and of making butter and cheese. Under the law, the commissioner can appoint skilled butter and cheese makers as inspectors of that class of factories, and of methods of manufacture, and authorize them to attend agricultural fairs and conventions as instructors.

Some years since a somewhat similar idea was put in force in Ireland. A portable dairy, with all modern appliances, was sent into the agricultural districts of that island in charge of a capable man, and under his instructions the peasantry learned so rapidly that the butter product of the following year, because of its improved quality, was worth many thousand pounds sterling more than it had been in former years. First-class butter and cheese always command profitable prices, while poorly made sell for whatever people are willing to pay. The makers of the first never have to hunt for a market, while those who make poor stock have hard work to get rid of it.

The New York plan could be adopted by the Southern State boards or departments of agriculture greatly to the benefit of their people. There is comparatively little good butter or cheese made in the South, except in two or three States, while there are but few localities where the dairy industry cannot be prosecuted to advantage. There is not one of these States that cannot find among its citizens expert instructors, nor is there one with an agricultural department so limited in its funds that provision could not be made for equally practical dairy conferences. We commend this important subject to the State agricultural officials of the South, and to the farmers' alliances, the grangers, and all similar voluntary associations, because the MANUFACTURERS' RECORD wishes the prosperity of the South to be completely rounded, and knows that that can never be until every natural resource, of whatever kind, has been made available by the intelligence and industry of its people.

■ If you are not already a subscriber to the MANUFACTURERS' RECORD, send us \$4 and you will receive it regularly for one year or six months for \$2.00.

Southern Seaside Resorts.

To all proprietors of Southern seaside resorts, as well as to all owners of those beaches on the Atlantic and Gulf coasts of the South that are easily accessible, but that are as yet unknown to fame, the MANUFACTURERS' RECORD wishes to present a few seasonable suggestions, and asks for them a candid and careful consideration.

There is a steadily increasing desire among the Southern country people to see and to bathe in salt water and to enjoy sea food. Every newly-opened place which can be reached by a railroad has within the past three or four years entertained annually increasing crowds. Realizing this the railroad companies are getting more and more into the way of publishing low excursion rates, and advertising the delights of those beaches contiguous to their lines. But, except in rare instances, the profits of those who cater for the public at such places are not derived solely or mainly from this class of customers. While a valuable adjunct to their business, this class alone would not support any place. To make large profits, season after season, custom must be drawn from afar, and from those who can afford to spend several days or weeks at the seaside. The great resorts, from Atlantic City northward to Bar Harbor, Maine, are kept open as a rule only during the summer months. Their proprietors are forced to charge enormous prices because of their short seasons, heavy rents and other great expenses, in order to make money. Nearly all these places are so fashionable, as well as so expensive, that people of moderate means and quiet tastes are virtually shut out from patronizing them. They cannot afford to pay the money required for a week's outing at them, nor have they the means or the inclination to provide the multitude of costly garments that fashion requires, while, with true American spirit, they will not go where they would be looked down upon or criticised because of their small and inexpensive wardrobes. "Birds of a feather flock together" in our social life as well as in the woods and fields. New York has its Coney Island and Boston its Narragansett Beach, where all their citizens can enjoy the tonic influences of salt water baths and ocean breezes. But aside from these places there are very few on the Northern Atlantic Coast to which the million can resort. It is not so at the South. From Cape Charles to the mouth of the Cape Fear are a dozen places of greater or lesser fame that are open to all decent people of moderate means, every one of which could be made an all-the-year-round resort. The success of Old Point Comfort shows what can be done at other places, and last winter Virginia Beach, below Norfolk, was so well patronized as to prove that Northern and West-

ern people are looking for desirable seaside places, and are not particularly prejudiced in favor of any one locality. On the Gulf Coast are many equally attractive points, known as a rule only to the people of the States on whose sea front they are located. All these could, like Old Point and Virginia Beach, be made attractive to winter guests. The MANUFACTURERS' RECORD believes the time has come for calling the attention of the people of the interior towns and cities east of the Rocky mountains to the numerous seaside resorts of the South Atlantic and Gulf States, that they may use and enjoy them both winter and summer. It will pay their owners to advertise liberally in those newspapers of the largest circulation that reach well-to-do people and business men. Local papers for local trade, journals of large national circulation for the whole country.

WE are constrained to advise our good friends of the Raleigh News and Observer to give their exchange editor a shaking sufficient to rouse him out of his summer drowsiness. We find in the editorial column of that always readable newspaper, a paragraph about Scuppernong champagne, copied from a Norfolk exchange. Had the News and Observer man been as alert as usual, he would have seen in the MANUFACTURERS' RECORD, of June 8th, a letter from a New York correspondent giving all the particulars on which the Norfolk writer based his notice. As the company of which our correspondent wrote will be located in the Old North State, and have all the capital required to operate on a large scale, and as its success will be worth more money to Eastern North Carolina than can at present be conjectured, we are rather surprised that most of our exchanges in that State overlooked something so important. The hot weather must account for it.

PITTSBURG's coal trade with the country along the Mississippi river is threatened. As told in the MANUFACTURERS' RECORD some months ago, the Georgia Pacific Railroad is now building coal chutes at Greenville, Miss., and it is said by the officers of this road that they will soon deliver coal to the river boats at \$1.50 a ton. Moreover, the railroad company is building a number of barges for shipping coal to all points from Greenville to New Orleans.

AND now the South is invading Pennsylvania with the product of its rolling mills. It was not enough to ship its pig iron there. This it is following with the finished product. The Baldwin Locomotive Works have just purchased 200 tons of bar iron from the Roanoke Rolling Mill, and this has caused a good deal of talk in Pennsylvania iron centers. The time may yet come when the South will ship Bessemer steel rails to the North.

Diversity of Production Needed.

The MANUFACTURERS' RECORD has lately been urging the importance of more diversity in the production of cotton goods in the South, and the treasurer of a North Carolina mill in a letter to the MANUFACTURERS' RECORD upon this subject says:

I am glad to have an opportunity to write you in regard to the situation of brown cotton goods in the South. No doubt you have heard complaints about overproduction in this class of goods. We are making a nice quality, as you will see by sample sent in this mail, but as so many mills have gone into this class of goods within the last twelve months that the prices of three to five-yard goods have been reduced to a very small margin over the cost of production. Your article not long since on "Diversity of Production" was not written any too soon. We will all suffer in the near future unless the new mills make a different variety of goods. I hear of several manufacturers who expect to shut down within the next few weeks on account of prices being below the cost of production on the goods they are making. We thought of increasing our plant, but have decided to wait and ascertain what kinds of goods are not overdone and on which we can expect a fair profit, as the outlook for plain brown goods is gloomy. There is already an overproduction in this line with the exception of some special weights, which will be on the same footing within the next few weeks.

ONE month ago the MANUFACTURERS' RECORD said:

After English capitalists have finished buying up all the breweries in America, they will probably turn their attention to other manufacturing enterprises. We would not be surprised to find them looking around among Southern cotton mills and iron furnaces in the near future. There are chances there that are very tempting to moneyed people. The world's future centre of the iron and steel trade and cotton goods manufacture is in this favored section, and fortunate are they who, realizing this, plant their surplus capital here, for the harvest will be a rich one.

It looks as though this is to come true very shortly, for Mr. Samuel Untermyer, the agent for the English syndicate which is purchasing American breweries, said to a New York reporter last week: "This syndicate, which, by the way, is not a syndicate, but merely a number of English capitalists, is going to invest in flour mills and rolling mills. We are already negotiating for the purchase of different mills, and propose to manufacture rails in this country. I am not at liberty now, however, to state where these manufactories and mills are." Though Mr. Untermyer is not at liberty to say where these mills are, yet we are quite sure that the South is going to get a good share of the investments.

THE annual report of the Florence Railroad & Improvement Co., Florence, Ala., made last week to the stockholders, shows assets of \$1,852,858.09, and no liabilities whatever, except its capital stock, which is \$2,000,000, though the basis of subscription was \$20 per share or a total of \$400,000. On this basis the intrinsic value of the stock would be \$463.21 per share. The assets of the company make this showing, notwithstanding the value of the land is put at much less than what it is actually worth, while the future growth of the city must greatly enhance its value.

STILL PRESSING FORWARD

The South's Industrial Progress Shows no Halting.

LONGEST QUARTERLY LIST OF NEW ENTERPRISES EVER PUBLISHED.

Remarkable Increase in Investments.

The Prosperous South Daily Growing More Prosperous.

A GREAT ENTERPRISE BY ENGLISH IRON AND STEEL MAKERS.

From the poverty entailed by the most disastrous war in the world's history, the South is rapidly pressing to the period when it will become the most prosperous country on the globe. No one who will study the facts in the case can question this. Here is a country rich "beyond compare;" a country of which it has been said that "it has every advantage that God could give;" a country blessed with mineral wealth greater than the world has ever known elsewhere, with timber resources almost without limit; with agricultural possibilities not surpassed, probably not equalled in the aggregate by any other section of even double the area in America, for nowhere else can that wonderful product—cotton—be raised to any great extent, and nowhere else can there be added to this, such possibilities for fruit raising, for early and late vegetables, for the cereals and the grasses, as in this favored land. And then these blessings are so advantageously combined as to vastly enhance their value. Production of manufactured goods, whether of iron, of cotton, and of timber, as well as of the fruits of the soil, favored by fortunate circumstances, is made possible at a lower cost than in any other section of America, and ultimately lower than in Europe. These remarkable facts, for facts they are, are claiming the world's attention, and it is worthy of note that every investigator, whether he be a capitalist looking for profitable investments, or a mineral or timber expert who goes South, is impressed with the truth that the "the half has not been told." Men who have examined the best mineral regions of Europe and America, outside of the South, when they go there for the first time freely admit that the wealth of its mineral resources is far beyond anything that they had ever known of—greater in fact than they supposed existed anywhere in the world. The testimony of such men, backed, as is being done almost daily, by the investments of millions of dollars, shows that they know whereof they speak.

Not only is Northern capital beginning to pour into the South as never before, and not only are Northern iron and steel makers beginning to realize more fully than ever before that the South is to be the future center of the world's iron and steel trade, and that "that nation or that section of any nation which possesses supremacy in the production of iron and steel and in their conversion to final forms for use, will dominate and control the commerce of the world." Not only are these things true, but English iron and steel makers are also realizing their force, and many of them are preparing to take part in this industrial revolution.

While C. P. Huntington is investing \$1,000,000 in building the largest dry dock and iron and steel shipyard in America at Newport's News, Va., English iron and steel makers are preparing for a work which is destined to have an almost incalculable influence upon the future of the South and upon the country at large. Several years ago a number of the foremost iron and steel makers of Great Britain, representing millions of dollars of capital, had their attention called to the wonderful combination of mineral wealth—coking coal, high-grade iron ores of many kinds, including Bessemer ores—and other advantages of the country around Cumberland Gap, Tenn., a dividing point in the mountain range separating Virginia, Kentucky and Tennessee. They sent out an expert, and his report was so favorable that they could scarcely believe it, and others were sent and they more than confirmed what the first had said. Very quickly then these practical iron and steel makers went to work. They purchased thousands of acres of land; they commenced the cutting of a 3,500 foot tunnel through the mountains, to open a way of communication for several railroads; they commenced building railroad, pre-

pared to lay out a town, &c. These things they have been doing so quietly that but few know of this great enterprise—probably the most extensive industrial undertaking of its character ever organized. They have already spent \$4,000,000 in their work at Cumberland Gap, or rather at Middleborough, which is the name of the new town, and have now thrown it open to the public. The magnitude of what has been accomplished may be better understood from a few facts. Upon the preliminary work of buying the property, building a tunnel, railroads, etc., they have as already said spent \$4,000,000, but that is only the beginning. They have made contracts for not less than four furnaces, rolling mills and steel works to cost \$3,000,000; for opening coal mines involving a cost of over \$300,000, a \$500,000 tannery, seven saw mills in full operation to supply lumber for building purposes in the town, four brick yards with over \$60,000 invested, machine shops planing mills, and a number of other enterprises representing a capital of about \$7,000,000. This is simply an illustration of the wonderful work which is now going on in the South. It shows how the leading iron and steel makers of Great Britain—for Middleborough is distinctly an English town so far as its origin and backing is concerned, and even its able projector and manager is of Scotland—seeing that the South is to become the world's iron and steel center, have determined to take an active part in its development. Middleborough is but a sign which tells of how English capital is now to be poured into the South. It's founding marks a distinctively new era in the South's iron and steel history.

While this is the most ambitious industrial enterprise inaugurated in the South when its magnitude and its far-reaching influence for the good of this section are taken into account, yet other great enterprises are being started almost daily by men of capital from the North, as well as by the people of the South themselves. Everywhere there is activity and life. The South is pressing into diversified manufactures and already competing in Northern markets with the finer goods of Northern factories. In the future her pig iron will more and more be manufactured in her own rolling mills and machine shops and foundries; her cotton mills will ere long enter into active competition in making fine goods, and her ship yards and locomotive and car works will lead the country in these lines.

From now on the South will reap the benefits of the industrial developments of the last two years more freely than heretofore. The great furnace plants, rolling mills, car works and kindred enterprises, which have required so many millions of dollars for their construction, are one after another getting into operation and becoming wealth creators. Moreover, the iron interests of the South have passed through the extreme depression, which has forced so many Northern furnaces out of blast, so remarkably well, making money even at the low prices prevailing, as to have commanded universal attention. This very fact will draw many millions of dollars of Northern and foreign money to the South for investment in coal and iron properties. The projection of iron furnaces goes steadily on, and in Virginia, Alabama, Kentucky and Tennessee, a large number are to be built, while arrangements are being made to construct one or more to work the Bessemer ores at Llano, Texas. There is a growing interest in the building of rolling mills, pipe works, stove works, car wheel works and kindred enterprises, to consume at home the pig iron made in Southern furnaces. The prediction is freely made by competent authorities that it will be but a few years before the transportation of bar iron becomes as important a factor in Southern railroad freights as pig iron now is.

There has been unprecedented activity in the building of cotton-seed oil mills, this industry having been very profitable last year, and the indications point to bitter competition between the independent mills, of which many are being started, and the Trust mills. In cotton mills the increase has also been very large.

The increase in the number of new enterprises projected during the last six months, as compared with the corresponding periods of 1888, 1887 and 1886, has been very large, while in the amount of capital and capital stock represented the gain has also been remarkably heavy. For the first six months of 1889 there were 3,615 new enterprises reported by the MANUFACTURERS' RECORD, against 2,023 for the same time last year, 1,855 for same time 1887 and 813 for the corresponding period of 1886.

A comparison of the new enterprises organized during the last six months, as compared with the corresponding time in 1888, 1887 and 1886, makes a most instructive exhibit:

	1886.	1887.	1888.	1889.
Iron furnaces.....	28	6	30	7
Machine shops and foundries.....	77	70	53	40
Agricultural implement factories.....	6	6	11	7
Cotton mills.....	72	70	68	48
Four mills.....	44	33	21	8
Furniture factories.....	19	18	24	18
Gas works.....	10	18	24	15
Water works.....	69	51	46	15
Carriage and wagon factories.....	96	96	96	11
Electric light companies.....	131	85	93	17
Mining and quarrying enterprises.....	308	260	313	70
Wood-working factories, including saw and planing mills, sash and door factories, stove factories, &c.....	620	450	351	248
Ice factories.....	35	33	33	39
Canning factories.....	77	170	49	6
Stove foundries.....	6	4	2	3
Brick works.....	118	95	110	36
Miscellaneous iron works, rolling mills, pipe works, &c.....	30	13	47	8
Cotton compresses.....	21	98	20	7
Cotton-seed oil mills.....	73	15	13	2
Miscellaneous enterprises not included in foregoing.....	749	544	595	814
Total.....	2,615	2,023	1,855	812

Summing up the amount of capital and capital stock represented by our list of new enterprises during the last six months, as compared with the same time in 1888, we have:

	First six months of 1886.	1887.	1888.	1889.
Alabama.....	\$14,500,000	\$14,500,000	\$14,500,000	\$14,500,000
Arkansas.....	4,000,000	4,000,000	4,000,000	4,000,000
Florida.....	1,800,000	1,800,000	1,800,000	1,800,000
Georgia.....	10,000,000	10,000,000	10,000,000	10,000,000
Kentucky.....	10,000,000	10,000,000	10,000,000	10,000,000
Louisiana.....	4,000,000	4,000,000	4,000,000	4,000,000
Maryland.....	4,000,000	4,000,000	4,000,000	4,000,000
Mississippi.....	1,400,000	1,400,000	1,400,000	1,400,000
North Carolina.....	4,500,000	4,500,000	4,500,000	4,500,000
South Carolina.....	3,000,000	3,000,000	3,000,000	3,000,000
Tennessee.....	8,000,000	8,000,000	8,000,000	8,000,000
Texas.....	14,600,000	14,600,000	14,600,000	14,600,000
Virginia.....	10,745,000	10,745,000	10,745,000	10,745,000
West Virginia.....	5,400,000	5,400,000	5,400,000	5,400,000
Total.....	\$108,933,000	\$108,933,000	\$108,933,000	\$108,933,000

In this summary of capital and capital stock the aim of the MANUFACTURERS' RECORD is to avoid as far as possible any overstatement, preferring to underestimate rather than to exaggerate. Hence we do not include in this summary the capital stock of land companies organized for development purposes, even though closely identified with industrial matters, nor of natural gas companies, in the organization of which there has been a rage in Kentucky, nor of building corporations or railroad companies. It is doubtless true, as we have often said, that notwithstanding these omissions, the actual cash investments are not as large as the foregoing figures, as the capital stock of many companies is greater than their cash capital, but this is partly offset by the hundreds of small enterprises such as cotton gins, grist mills, portable saw mills, etc., not included in our list, and the constant additions of new machinery to plants already in operation.

In the following list we give the name, location and character of business of the new enterprises projected during the last three months, and existing establishments rebuilt (after being burned) or enlarged:

ALABAMA.

Arbacochee.....	Armstrong & Leake.....	*Gold Mining.
Alpine.....	J. W. Hecock & A. O. Riser.....	Iron Mine.
Anniston.....	Peter Campbell.....	*Foundry & Mach. Shop.
Anniston.....	Stringfellow & Wheatstone.....	*Planing Mill.
Anniston.....	Anniston Gas & Light Co.....	*Electric plant.
Anniston.....	T. W. Owen.....	*Candy Factory.
Anniston.....	Woodstock Iron Co.....	*Iron Mines.
Anniston.....	John H. Cates.....	*Saw Mill.
Anniston.....	E. T. Gennert and C. F. Redwitz.....	*Cotton-oil Mill and Gin.
Anniston.....	E. T. Gennert and C. F. Redwitz.....	*Machine Works.
Anniston.....	Anniston Gas & Light Co.....	*Incans Electric plant.
Anniston.....	Brown & Cox.....	*Planing Mill.
Anniston.....	Skelton, Howell & Comp.....	*Saw Mill.
Anniston.....	Anniston Foundry & Machine Works.....	*Enlarged Works.
Anniston.....	Anniston Furniture and Novelty Mfg. Co.....	*Dry-kiln.
Anniston.....	United Cotton-seed Oil Co.....	*Cotton-oil Mill.
Anniston.....	E. M. Lewis.....	*Enlarged Nail Mill, &c.
Anniston.....	Farrar & Higgins.....	*Furniture Factory, &c.
Anniston.....	O. E. Hagerman.....	*Candy Factory.
Ashville.....	J. T. Green and others.....	*Woodenware Factory.
Ashville.....	Alexander Corn.....	*Saw & Planing Mill.
Attalla.....	Attalla Cotton Compress & Mfg. Co.....	*Cotton Compress.
Attalla.....	Attalla Cotton Compress & Mfg. Co.....	*Cotton-oil Mill.
Attalla.....	Obal Christopher.....	*Iron Mines.
Attalla.....	Dobb, Campbell & others.....	*Coal Mine.
Auburn.....	Auburn Publishing Co.....	*Printing.
Bay Minette.....	E. E. Lockley and J. V. Thompson.....	*Saw Mill and Logging Railroad.
Bear Creek.....	Brewer, Ellis & Green.....	*Saw & Grist Mill.
Bear Creek.....	Brewer, Ellis & Green.....	*Cotton Gin.
Birmingham.....	J. E. Russell.....	*Publishing.
Bessemer.....	Buck & Preston.....	*Saw & Planing Mill.
Bessemer.....	Thomas Z. Hoffman.....	*Furniture Factory.
Bessemer.....	Debardeleben Coal & Iron Co.....	*Additional Reservoir.
Birmingham.....	W. B. Copeland & others.....	*Electrical Railroad.
Birmingham.....	E. D. Grimes and others.....	*Medicine Factory.
Birmingham.....	Mr. Hill.....	*Planing Mill.
Birmingham.....	East Lake Mfg. Co.....	*Brewery.
Birmingham.....	Birmingham Brewing Co.....	*Brewery.
Birmingham.....	Laura Marion Gold Mining & Milling Co.....	*Gold Mining, &c.
Birmingham.....	Tallulah Gold Mining Co.....	*Gold Mining, &c.
Birmingham.....	East Lake Land Co.....	*Water Works.
Birmingham.....	East Lake Land Co.....	*Electric plant.
Birmingham.....	Alabama Coal & Coke Co.....	*Coal Mining, &c.
Birmingham.....	Mr. Machine & Fndy. Co.....	*Machine Works.
Birmingham.....	Nashville Well Works & Tool Co.....	*Tool Works.
Birmingham.....	Birmingham Tack Factory.....	*Enlarged Factory.
Birmingham.....	Birmingham Gas Co.....	*Gas Works.
Birmingham.....	Sloss Iron & Steel Co.....	*New Iron Mines.
Birmingham.....	Turner Bros.....	*Trunk Factory.
Birmingham.....	Abendroth & Fisher Mfg. Co.....	*Iron Foundry.
Birmingham.....	Birm. Rolling Mill Co.....	*Enlarged Mill.
Birmingham.....	Sloss Iron & Steel Co.....	*Four New Coal Mines.
Birmingham.....	Sloss Iron & Steel Co.....	*125 Coke Ovens.
Birmingham.....	Leloup & Lee.....	*Steam Laundry.
Birmingham.....	E. H. Courson & Co.....	*Enlarge Clothing Facy.
Birmingham.....	Ellen-Ross Iron Works.....	*Improved Works.
Birmingham.....	Elyton Land Co.....	*Water Filters.
Bluffton.....	Mr. Pryor.....	*Flour Factory.
Brewton.....	Peters Lumber Co.....	*Lumber Mill.
Brewton.....	Peters Lumber Co.....	*Water Works.
Brewton.....	Peters Lumber Co.....	*Foundry & Mach. Shop.
Bridgeport.....	North Alabama Lumber & Mfg. Co.....	*Planing Mill & Dry-kiln.
Broken Arrow.....	Coosa Coal & Coke Co.....	*Coke Ovens.
Camden.....	Henderson, Liddell & Co.....	*Coke Mill.
Carbon Hill.....	Kas. City Coal & Coke Co.....	*Coke Ovens.
Cedar Bluff.....	Cedar Bluff Land, Mfg. & Imp. & Mfg. Co.....	*Saw Mill.
Cedar Bluff.....	Z. T. Lawrence.....	*Grist Mill & Gin.
Chilton.....	Chilton Lumber Co.....	*Lumber Mill.
Choccolocco.....	James M. White.....	*Brick-yard.
Clanton.....	O. A. Dukes.....	*Saw & Planing Mill.
Clayhatchie.....	Beal & Ellis.....	*Saw Mill.
Clement Depot.....	William A. Gould.....	*Coal Mine.
Columbia.....	Columbia Variety Works.....	*Variety Works.
Columbia.....	Columbia Variety Works.....	*Water Works.
Columbia.....	Blackwell, Jones & Brantwell.....	*Increased Capital.
Decatur.....	Decatur Car-wheel Co.....	*Double Plant.
Decatur.....	Thoms' & Hous' & Elec. Co.....	*Electric plant.
Decatur.....	Decatur Horse Nail Co.....	*Additional Machinery.
Decatur.....	American Oak Extract Co.....	*Enlarged Works.
Decatur.....	S. L. Halsey.....	*Steam Laundry.
Decatur.....	Decatur Light & Power Co.....	*Electric Plant.
Decatur.....	Moulthrop-Stevens Co.....	*Brick Works.
Demopolis.....	Alabama Alliance Co.....	*Cotton-oil Mill.
Demopolis.....	George Leder.....	*Cotton-oil Mill.
Dillburgh.....	F. A. Blake.....	*Planing & Shingle Mill.
Dillburgh.....	C. L. Dill.....	*Brick & Tile Works.
East Birm.....	East Birm. Smelting Wks.....	*Smelting Works.
East Birm.....	C. H. Thompkins.....	*Woodworking Factory.
East Birm.....	Mary Lee Coal & Iron Co.....	*Machine Shops.
East Birm.....	East Birmingham Sd.....	*Enlarged Works.
East Birm.....	Iron & Mfg. Co.....	*Enlarged Works.

LOCATION.	NAME.	BUSINESS.
East Birm.	East Birm. Furn. Factory.	Enlarged Factory.
Elba	Farmers' Alliance.	Oil Mill & Fert. Fact'y.
Enley	Enley Ice Mfg. Co.	Ice Factory.
Eufaula	American Cotton-oil Trust.	Cotton-oil Mill.
Eufaula	Eufaula Cotton-seed Oil	Ice Factory.
Eufaula	Mills & Guano Factory.	Ice Factory.
Eufaula	Westinghouse Electric Co.	Electric-plant.
Evergreen	Michigan Land Co.	Lumber Mill.
Falkville	Ala. Asphalt & Mining Co.	Dev. Asphaltum Mines.
Florence	A. F. Leftwich.	Gas Works.
Florence	J. W. Borst and others.	Fire-brick Works.
Florence	Gibson-Hilliard Mfg. Co.	Spoke & Handle Fact'y.
Florence	Neely, Smith & Co.	Saw Mill.
Florence	W. F. Inman.	Enlarged Water Works.
Florence	Russell Handle Factory.	Increase Capital.
Florence	Sash & Blind Factory.	Sash & Blind Factory.
Florence	State Farmers' Alliance.	Cotton-oil Mill.
Florence	Florence Brick & Cont. Co.	Enlarge Works.
Florence	W. W. Briscoe Tobacco	Tobacco Factory.
Florence	J. B. Briggs.	Stave Factory.
Florence	Florence Electric-light Co.	Electric-plant.
Florence	Sweetwater Shoe Mfg. Co.	Doubled Capacity.
Florence	Jefferson James.	Cotton Mill.
Florence	Iowa Land & Lumber Co.	Enlarge Lumber Mill.
Florence	Furniture Factory.	Furniture Factory.
Fort Payne	Planing Mill.	Planing Mill.
Fort Payne	Rockwell.	Lime Works.
Fort Payne	St. Payne Coal & Iron Co.	Stove Works.
Fort Payne	A. R. Megrue.	Brick Works.
Fort Payne	St. Payne Ice & Stor. Co.	Ice Factory, &c.
Fort Payne	Fort Payne Rolling Mill Co.	Rolling Mill.
Fort Payne	St. Payne Coal & Iron Co.	Electric-plant.
Fort Payne	St. Payne Coal & Iron Co.	Stove Ovens.
Fort Payne	St. Payne Coal & Iron Co.	Water Works.
Fort Payne	Pottery Works.	Pottery Works.
Fort Payne	A. J. Rehkopf.	Carriage Factory.
Fort Payne	North Alabama Lumber	Saw Mill & Woodwork-
Fort Payne	& Woodworking Co.	ing Factory.
Fort Payne	George Mayo and asso.	Stoneware Factory.
Fort Payne	England Dairy Co.	Creamery.
Fort Payne	William R. Anderson.	Water Works.
Fort Payne	St. Payne Coal & Iron Co.	Fire-brick Works.
Gadsden	Gadsden Electric-light Co.	Electric-plant.
Gadsden	C. A. Adams, manager.	Furniture Factory.
Gadsden	Cove Creek Lumber Co.	Lumber Mill.
Gadsden	Gadsden Ala. Furnace Co.	Improved Furnace.
Gadsden	Gadsden Ala. Furnace Co.	Iron Mines.
Gate City	W. A. Morley.	Pottery, Brick Wks. &c.
Geneva	J. F. Beal & Co.	Saw Mill.
Geneva	A. M. McKinnon.	Saw Mill.
Geneva	P. Cumbar.	Grist, Saw & Plan. Mill.
Girard	Chatahochee Knit'g Co.	Enlarged Factory.
Goodwater	John E. Slaughter.	Evaporating Factory.
Greenville	W. K. Martin.	Ice Factory.
Greenville	John L. Bowen.	Double Cedar Factory.
Gurley	Cochran & Hayes.	Saw Mill.
Harpersville	G. D. Stonestreet & Co.	Gold Mine.
Hillsville	R. M. Rogers.	Planing Mill.
Hillsville	Kinsler & Rogers.	Machine Shop.
Hollywood	R. G. Burleigh.	Spoke & Handle Fact'y.
Hull	Bowling, Hubbell & Ober-	ing.
Huntsville	Monte Sano Water Co.	Water Works.
Huntsville	J. A. B. Lovett & Son.	Publishing.
Huntsville	Huntsville Gas Co.	Improved Works.
Ironaton	Clifton Iron Co.	Another Furnace.
Jacksonville	Alabama Timber, Coal,	Water Works.
Jasper	Iron & Railway Co.	Coal Mines and Furnace.
Jasper	Bl'water Land & Lum. Co.	Iron Furnace.
Jenifer	Jenifer Iron Co.	Iron Furnace.
Keener	W. B. Beeson.	Oil Mill & Fert. Factory.
Kippluga	& Mfg. Co.	Saw Mill.
Larkinsville	North Alabama Lumber	Saw Mill.
Lo. Peach Tree	M. Philen.	Grist Mill & Gin.
Lomax	C. J. Stewart.	Saw Mill.
Lindale	James Johnson.	Cotton Gin.
Lincoln	G. O. Smith.	Saw and Grist Mill.
Lincoln	B. Schmidt & Son.	Cotton-oil Mill.
Livingston	Charles H. Allen.	Publishing.
Mobile	George Ferge.	Saw Mill.
Mobile	F. Overall and C. Dumont.	Pickle Factory.
Mobile	Fred. Lehrkind.	Axle-grease & Box Fac'y.
Mobile	James Flock.	Dry-dock.
Mobile	Gulf City Oil Mills.	Cotton-oil Mill.
Mobile	Gage-Lyons Co.	Ice Factory.
Mobile	Mountain & Sons.	Ice Factory.
Mobile	Cameron & Son.	Shingle Mill.
Mobile	W. W. Richards.	Shingle Mill.
Montevallo	Mont. Coal & Trans. Co.	Coal Mines.
Montgomery	J. Griel and others.	Cotton Mill.
Munford	C. H. Simmons.	Cotton Mill.
Newcastle	Milner Coal & R. R. Co.	Coke Ovens.
Newton	G. Hallford.	Planing Mill.
Newton	E. H. Windham.	Lumber Mill.
Northport	J. C. Lawrence.	Printing.
Nottingham	W. L. Robinson Planing	ing Mill.
Oncenta	J. W. Worthington & Co.	New Iron Mines.
Opelika	J. B. Bennett and others.	Iron Foundry.
Peters	B. D. Abney.	Added Gin.
Ragan	T. M. Hightower.	Saw Mill.
Remlap	Washington & Hill.	Saw Mill.
Riverside	Morris, Iron & Co.	Brick-yard.
Russellville	Thomas Keenan.	Stone Quarry.
Selma	Selma Saw Mill & Mfg. Co.	Saw Mill.
Selma	W. R. K. Stanford & Son.	Boiler & Sheet-iron Wks.
Selma	Selma Water Co.	Enlarged Works.
Seaborn	Capt. Beeson.	Saw Mill.
Sheffield	W. J. Thorn.	Gin Factory.
Sheffield	Sheffield Land, Iron &	New Water Works.
Sheffield	Coal Co.	Cotton Ginnery.
Sheffield	Louis Lagomarsino & Co.	Bottling Works.
Sloss	Sloss Iron & Steel Co.	New Iron Mine.
South Lowell	Allen & Long.	Coal Mines.
Spg. Garden	Spring Garden Water	Water Works.
Stevenson	Wks., Land & Imp. Co.	Water Works.
Stevenson	Stevenson Land & Imp. Co.	Basket & Dish Factory.
Stevenson	Stevenson	Corn Mill & Gin.
Stevenson	Stevenson	Flour Mill.
Sylacauga	Mr. Gaston.	Saw and Grist Mill.
Sylacauga	T. Phillips.	Saw and Grist Mill.
Talladega	R. Williams & Son.	Wood-working Shop.
Talladega	Talladega Ice Co.	Bottling Works.
Talladega	Williams & Orr.	Planing Mill.
Talladega	Stone & Terry.	Brick Works.
Talladega	C. G. Allman.	Saw Mill.
Troy	Folmar & Sons.	Saw, Grist Mill and Gin.
Troy	B. Coleman & Bro.	Cigar Factory.
Troy	Pyles, Windel & Hogue.	Saw Mill.
Troy	Troy Iron Works.	Improvement Works.
Troy	Troy Iron Works.	Ice Factory.
Troy	Chapman & Johnson.	Grist Mill and Gin.
Troy	Troy Compress Co.	Cotton Compress.
Troy	Troy Iron Co.	Bottling Works.
Troy	L. Henderson.	Gin.
Troy	Folmar & Walden.	Mill.
Troy	Troy Shoe Mfg. Co.	Shoe Factory.
Tucker County	Troy Fertilizer Co.	Increase Capital.
Tucker County	M. Garrison and others.	Coal Mines, &c.
Tusculum	M. Garrison and others.	Coal Mines, &c.
Tusculum	G. W. Campbell and others.	Cotton Mill.
Tusculum	J. W. Soady.	Cotton Compress.

LOCATION.	NAME.	BUSINESS.
Tuskaloosa	Bowling & Maddox.	Saw Mill.
Tuskaloosa	Tuskaloosa Shoe Factory.	Shoe Factory.
Tuskaloosa	Tuskaloosa Lumber Co.	Lumber Mill.
Union Springs	Bullock County Mfg. Co.	Cotton-oil Mill & Gin'y.
Walnut Grove	Pearson & Co.	Brick Works.
Warrior	Pearson & Co.	Coke Ovens.
Warrior	Pearson & Co.	Coke Ovens.
Woodstock	Coke Co.	Coke Ovens.
Zidonia	Edwards Iron Co.	Coke Ovens.
Zidonia	Z. Robertson.	Saw Mill.

ARKANSAS.

LOCATION.	NAME.	BUSINESS.
Antonie	Lumber Mill.	Lumber Mill.
Arkansas	C. H. Plummer.	Saw Mill.
Austin	J. F. Darr.	Grist Mills and Gins.
Austin	Lonoke Tannery.	Tannery.
Batesville	Batesville Printing Co.	Printing.
Batesville	Batesville Water Power	Water Works.
Batesville	& Irrigation Co.	Water Works.
Batesville	Abbott & Ring.	Manganese Mine, &c.
Batesville	Ark. Mining & Indus. Co.	New Machinery.
Benton	S. A. Duke & Co.	Stave & Barrel Factory.
Brinkley	Batesville & Brinkley R.	Machine Shops.
Brinkley	R. Co.	Machine Shops.
Buenavista	Canning Factory.	Canning Factory.
Camden	Ouachita Coal Co.	Coal Mines.
Camden	Ouachita Coal Co.	Saw and Planing Mill.
Camden	Pope & Sons.	Brick-yard.
Camden	C. C. Henderson.	Brick Mill.
Centre point	Broom Factory.	Broom Factory.
Cherry Valley	A. Jordan.	Saw Mill.
Cherry Valley	Cherry Valley Stave &	Treble Factory.
Chickasaw Ldg	Heading Co.	Saw Mill.
Clarksville	E. T. McConnell.	Planing Mill.
Coal Hill	Stewart & Co.	Enlarge Coal Mines.
Conway	H. M. Bargebaugh.	Corn Mill.
Dardanelle	Belvins & Craves.	Corn Mill.
Des Arc	J. M. Petty & Bro.	Enlarge Saw Mill.
Durham	Hill & McCurry.	Flour Mill.
Fisher	Townley Bros.	Lumber & Shingle Mill.
Forrest City	Pope & Havers.	Cotton Ginnery.
Fort Smith	Choctaw Coal Co.	Coal Mines.
Fort Smith	Fort Smith Milling Co.	Flour Mill.
Fort Smith	A. H. Russell and S. C.	Stove Factory.
Fort Smith	Francher.	Stove Factory.
Fort Smith	Fort Smith Canning Co.	Doubled Capital.
Fort Smith	Ketchum Iron Works.	Manufacture Stoves.
Golden Lake	Gold. Lake & Frenchm'n	Ginnery.
Greenway	Bayou Tram & Lum. Co.	Planing Mill.
Greenway	Lovels, Cochran & Null.	Planing Mill.
Greenwood	Hicks & Cooper.	Flour Mills.
Greenwood	Greewood Coal & Coke Co.	Coal Mines, &c.
Gurdon	Gurdon Lumber Co.	Planing Mill.
Hazen	Holmes & Taylor.	Publishing.
Helena	Helena & Old Town Tel-	ephone Co.
Helena	Batchelder Egg Case Co.	Enlarge Factory.
Helena	Moline Lumber Co.	Enlarge Mill.
Hindsville	Lane & Harris.	Remodel Flour Mill.
Hope	Hope Compress Co.	Compress.
Hope	Hope Water Co.	Improve Works.
Hope	Spring Hill Lumber Co.	Saw Mills.
Hope	E. G. Porterfield and C.	Saw Mill.
Hot Springs	T. White.	Saw Mill.
Hot Springs	Hot Spgs. Brick & Tile Co.	Brick & Tile Works.
Hot Springs	Furniture Factory.	Furniture Factory.
Kingsland	Southern Pine Lumber Co.	Planing Mill.
Lead Hill	Phillip Moore and others.	Copper Mine.
Lead Hill	J. C. Fain and others.	Copper Mine.
Lewisville	Holbert & Lyle.	Wagon Factory.
Little Rock	Ark. Indus. University.	Mechanical Shops.
Little Rock	Mississippi Hedge Co.	Hedge Fences.
Little Rock	Raible & Kramer.	Candy Factory.
Little Rock	Layman Safety Car Coup-	Car Couplers.
Little Rock	ler Co.	Car Couplers.
Little Rock	Buddenberg Furniture Co.	Furniture Factory.
Little Rock	Port Jean Coal Co.	Coal Mines.
Little Rock	City Fuel Co.	M. Sand.
Macon	White Cloud Lumber Co.	Saw Mill.
Magnet	D. Holloway.	Saw Mill and Gin.
Mam. Spring	Mam. Spg. Water, Light,	Water Works.
Mam. Spring	Elec. Plant & Motor Co.	Water Works.
Mam. Spring	Mam. Spg. Water, Light,	Electric Plant, &c.
Marble City	E. C. Talbott.	Publishing.
New Edinbgh.	James Townsend.	Saw Mill.
Okolona	James Townsend.	Tile Factory.
Osceola	E. M. Ayres.	Saw Mill & Gin.
Ozark	E. M. C. Dowling & Co.	Saw Mill.
Paragould	Price Lumber Co.	Shingle Mill.
Pine Bluff	Bluff City Lumber Co.	Lumber.
Pine Bluff	King Mfg. Co.	Plumbing Department.
Pine Bluff	G. M. Dilley & Son.	Enlarge Foundry, &c.
Pine Bluff	N. N. W. H. H. H. H.	Gas Works.
Pine Bluff	Pine Bluff Plumbing &	ing.
Pine Bluff	Steam Heating Co.	ing.
Pine Bluff	Ark. Valley Hedge Co.	Build Hedge Fences.
Portia	North Ark. Lumber Co.	Saw, Plan. & Shin. Mill.
Prairie Grove	Mr. Catlett.	Remodel Flour Mill.
Prairie Grove	Dorman Bros.	Saw and Grist Mill.
Prescott	S. W. Brown.	Saw and Planing Mill.
Risin	H. C. Morrison Lumb. Co.	Dry-kiln.
Riverside	Doty, Harper & Co.	Saw Mill.
Rogers	Rogers.	Barrel & Stave Factory.
Saline	S. A. Brown & Co.	Saw Mill.
Sedgwick	Mr. Hopkins.	Shingle Mill.
Sedgwick	W. H. Williams & Co.	Corn Mill and Gin.
Silver City	J. H. Silvera.	Mining Plant.
Spadra	Stewart & Co.	Enlarge Coal Mines.
Springdale	W. B. Hazen & Co.	Enlarge Woolen Mill.
Springdale	Gray Eagle Mines.	Enlarge Operations.
Texarkana	Texarkana Woolen &	Woolen and Cotton Mill.
Texarkana	Cotton Mills.	Woolen and Cotton Mill.
Texarkana	W. T. Barrow and others.	Furniture Factory.
Texarkana	Smith Drug Co.	Enlarge Lumber Mill.
Thornton	Thornton Lumber Co.	Enlarge Lumber Mill.
Walnut Ridge	Hungerford Bros.	Saw Mill.
Walnut Ridge	Shotwell & Perry.	Shingle Mill.
Warren, nr.	Hall & Legan.	Saw Mill.
Washington	Washington Hedge Co.	Build Hedge Fences.
Weiner	H. P. Barbee & Son.	Stave Factory.
Weldon	B. B. McDearmon.	Cotton Gin.
West Memphis	N. Y. Timber Pres. Co.	Preserving Works.
West Memphis	Saw Mill.	Saw Mill.
Wynne	J. B. Ezell.	Stave Factory.
Wynne	Brick-yard.	Brick-yard.
Yellville	White Buffalo Mining Co.	Mining.
Yellville	St. Louis Mining Co.	Mining.
Yellville	New York Mining Co.	Mining.

FLORIDA.

LOCATION.	NAME.	BUSINESS.
Alachua	Farmers' Alliance.	Canning Factory.
Apalachicola	W. B. Sheppard.	Printing.
Apalachicola	Florida Shingle Co.	Shingle Mill.
Apopka	Apopka & Clay Springs	Machine Shop.
Apopka	Apopka & Clay Springs	Machine Shop.
Bradford	George E. Porter.	Planing Mill.
Brooksville	H. J. McCoy.	Spoke & Handle Fact'y.
Cedar Keys	James O. Andrews.	Oar Factory.
Charlotte Harb.	Fertilizer Factory.	Fertilizer Factory.
Clarcona	John A. Pierce.	Saw Mill & Box Factory.
Cypress	Porter Mfg. Co.	Grist Mill and Gin.
Dade City	Mr. Rand & Drew.	Saw Mill.
De Funiak Sp.	A. D. Dorman.	Planing Mill.
De Land	South Florida Brick, Tile	Water Works.
DeLeon Spgs.	& Terra-cotta Co.	Brick Works.
De Land	Cairns & Pearson.	New Cabinet Factory.
Eatonville	J. Speight.	Publishing.

LOCATION.	NAME.	BUSINESS.
Fernandina	Florida Central & Penin-	Machine Shops.
Florida	Shoe Railroad Co.	Shoe Factory.
Florida	Columbus Fertilizer Co.	Develop Phos. Lands.
Florida City	C. S. Warnock.	Publishing.
Fort Meade	Skinner & McDavid.	Brick-yard.
Escambia	Skinner & McDavid.	Saw and Shingle Mill.
Gainesville	D. E. Cooper.	Lumber Mill.
Gainesville	Benson Roux & Co.	Wagon Factory.
Higley	Alisbrook & Scott.	Saw Mill.
Jacksonville	H. S. Wilson.	Saw Mill.
Jacksonville	Anheuser-Busch Co.	Bottling Works.
Jacksonville	Tropical Fibre Co.	Brush Factory.
Key West	H. C. Pent.	Enlarge Cigar Factory.
Key West	E. H. Gato.	Cigar Factory.
Key West	M. Barranco & Co.	Cigar Factory.
Kissimmee	C. Buckless.	Saw and Planing Mill.
Kissimmee	Towne & Porch.	Bottling Works.
Kissimmee	Kissimmee Ice Factory Co.	Water Works.
Madison	Pulling & Jels.	Tobacco-curing Mach.
Madison	Madison Brick Co.	Brick Works.
Madison	Madison Ginning Co.	New Ginnery.
Madison	Florida Mfg. Co.	Cotton Factory, &c.
Marion County	J. B. Pomeroy.	Saw Mill & Crate Fac'y.
Melrose	Horstman & Annand.	Woodworking Factory.
Middleburg	Montmolan & Annand.	Saw Mill.
Middleburg	Montmolan & Annand.	Machine Shop.
Millview	Southern States Land &	Planing Mill.
Mt. Pleasant	Timber Co., limited.	Planing Mill.
Mt. Pleasant	A. W. Snider.	Brick Works.
Ocala	Adam L. Eichelberger.	Develop Gypsum Mines.
Orlando	South Florida Foundry	Machine Works.
Orlando	& Machine Co.	Machine Works.
Orlando	Orlando Laundry.	Steam Laundry.
Orlando	George Russell.	Canning Factory.
Orlando	Record Publishing Co.	Printing.
Orlando	Record Publishing Co.	Printng.
Palatka	Armentero & Gutierrez.	Cigar Factory.
Palatka	Seminole Mfg. Co.	Extract Factory.
Palatka	N. J. Tilghman & Sons.	Saw and Planing Mill.
Pensacola	Milner Lumber Co.	Shingle & Planing Mill.
Pensacola	Pearson & Toole.	Cann'g & Fert. Factory.
Pensacola	Southern States Land &	Lumber Mills, &c.
Pensacola	Export Coal Co.	Coal Docks, &c.
Pensacola	Export Coal Co.	Furniture Factory.
Pensacola	A. J. Dorman.	Planing Mill.
Pensacola	M. Levy.	Pants Factory.
Punta Gorda	Mr. Barges and others.	Cigar Factory.
Sanford	L. G. Stockin.	Broom Factory.
Sanford	W. A. Miller.	Variety Works.
Sanford	W. A. Miller.	Saw Mill.
Saunder	Keystone Brick & Tile Co.	Brick Works.
Sorrento	H. Wadsworth.	Saw Mill.
St. Augustine	St. Augustine Gas Co.	Extend Mains.
St. Augustine	Cook & Lilly.	Manufacture Furniture.
St. Augustine	St. Augustine Improv't Co.	Wood-working Factory.
Sumterville	A. A. Stivener.	Saw Mill.
Tampa	Morse, Langhoff & Co.	Cigar-box Factory.
Tampa	Tampa Lumber Co.	Lumber Mill.
Tampa	Garcia & Co.	Cigar Factory.
Tallahassee	W. M. French.	Tobacco-curing Plant.
Tavares	W. M. French.	Artificial Stone Works.
Wauchula	Geo. W. Scott Mfg. Co.	Phosphate Mine.
Welshon	Keystone Brick & Tile Co.	Brick Works.
Whitney	J. E. Barwick.	Planing & Grist Mill &c.
Winter Hav.	Preserving Co.	Canning Factory.
Windsor	Gardner & Co.	Moss Factory.

GEORGIA.

Abbeville	A. K. Fisher.	Barrel-hoop Factory.
Acworth	J. L. Lemon.	Harness Factory.
Acworth	B. B. Ely.	Gold Mine.
Acworth	Evatt, McWilliams & Co.	Hoop Factory.
Acworth	Mr. Williams, supt.	Canning Factory.
Acworth	Mr. McRoberts.	Gold Mine.
Adairsville	McHenderson & Blanton.	Saw Mill.
Adel	S. G. Culpepper.	Saw & Planing Mill.
Albany	Albany Fertilizer Co.	Enlarged Works.
Allatoona	Ira McDaniel.	Gold Mine.
Americus	Americus Publishing Co.	Printing.
Americus	Americus St. Railway Co.	Electric-plant.
Americus	Americus Light & Pow. Co.	Electric-plant.
Americus	Pearl Steam Laundry.	Steam Laundry.
Americus	Hitt & Co.	Shingle Mill.
Americus	Hagerman & Blecker.	Planing Mill, &c.
Americus	Americus Variety Works.	Enlarged Water Works.
Americus	Americus Variety Works.	Enlarged Works.
Athens	Talmadge Bros.	Flour Mill.
Athens	Athens Publishing Co.	Printing.
Athens	Athens Water Co.	Boiler Room.
Atlanta	Fulton Street Railway Co.	Electric-plant.
Atlanta	Carolina Carsora Mar. Co.	Develop Quarries.
Atlanta	Union Mill & Wareh. Co.	Flour Mill.
Atlanta	A. B. Steele Lumber Co.	Saw & Planing Mill.
Atlanta	Atlanta Machine Works.	Machine Works.
Atlanta	Fulton Bag & Cotton Mills.	Cotton & Bag Factory.
Atlanta	W. S. D. Wikle.	Composition Factory.
Atlanta	G. W. Newberry & others.	Woodworking Factory.
Atlanta	Beutell Mfg. Co.	Wood-working Factory.
Atlanta	Atlanta Car'ge & Wag'n Mfg. Co.	Wagon Factory.
Atlanta	Brosius Int. Motor Sewing Machine Co.	Man. Sewing Machines.
Atlanta	U. S. Gas Light Co.	Gas Works.
Atlanta	Collins Brick Co.	Brick Works.
Atlanta	Southern Agricult' Wks.	Implement Works.
Atlanta	Exposition Cotton Mills.	Enlarged Mill.
Atlanta	A. L. Cuesta.	Enlarged Cigar Factory.
Atlanta	Wellons & Co.	Paper-box Factory.
Atlanta	Equitable Land & Imp. Co.	Enlarged Works.
Atlanta	Gate City Oil Co.	Cotton-oil Mill.
Atlanta	Moxie Co.	Enlarge Bottling Wks.
Atlanta	Atlanta Perfumery Co.	Perfume Factory.
Atlanta	McCroskey & Whittingham.	Brass Works.
Augusta	Augusta Oil Co.	Power Plant.
Augusta	Armour & Co.	Refrigerator.
Augusta	Allen Shedd & Co.	Broom Factory.
Augusta	Augusta Works.	Planing Mill.
Bainbridge	Wellons & Co.	Planing Mill & Sash Fac.
Bainbridge	Henning & Lamb.	Novelty Works.
Bainbridge	Mr. Humphries.	Shingle & Grist Mill.
Bainbridge	Wilmer & Latham.	Shingle & Lath Mill.
Bainbridge	E. Swindell.	Saw Mill.
Bainbridge	W. M. Blount.	Saw Mill.
Bainbridge	Edison Electric Co.	Electric-plant.
Banning	M. R. Williamson.	Enlarge Paper Mill.
Barnesville	J. H. Pond.	Saw Mill.
Barnesville	B. F. Turner.	Planing Mill.
Blythe	C. Boyd & Co.	Saw Mill.
Bowman	W. H. King.	Enlarge Flour Mill.
Brunswick	Kennon Mfg. Co.	Cotton Mill.
Brunswick	Dunham & Hotchkiss.	Saw & Planing Mill.
Brunswick	Spear & Bailey.	Brick-yard.
Brunswick	Brunswick Water Co.	Additional Reservoir.
Brunswick	Brunswick Compress Co.	New Compress.
Buchanan	Buchanan Publishing Co.	Printing.
Buena Vista	Dr. Half.	Brick-yard.
Burd	Capt. Robins.	Cand. & Lathing.
Butts	E. B. Waters and others.	Cotton Factory.
Cairo	J. B. Snow.	Evaporating Works.
Camilla		Implement Factory.
Carrollton	Carrollton Brick Co.	Brick-yard.
Carrollton	E. A. Brooks.	Cotton-oil Mill.
Carrollton	Brooks & Aycock.	Planing Mill & Gin.
Carrollton	J. H. Strophe.	Foundry & Pump Wks.
Carrollton		Cotton Mill.
Carrollton	T. F. Marlow & Bro.	Sash & Door Factory.
Cartersville	O. Granger.	Electric-plant.
Cartersville	O. Granger, and asso.	Develop Iron Mines, &c.
Cartersville	North Georgia Mining Co.	Mining.
Cartersville	Cartersville Water Wks. Co.	Water Works.

15

LOCATION.	NAME.	BUSINESS.	LOCATION.	NAME.	BUSINESS.
Cartersville...	Georgia Mining, Manfg. & Investment Co.	Mining, &c.	Louisville...	Louisville, St. Louis & Texas Railroad Co.	Machine Shop.
Cedartown...	Cedartown Lumber Co.	Enlarged Mill.	Louisville...	Steinbacher-Komp Machine Co.	Machine Works.
Cedartown...	Cherokee Iron Co.	Improved Furnace.	Louisville...	Amer. Bitum. Rock Co.	Mining.
Cedartown...	Standard Ore & R. R. Co.	Mine Iron Ore.	Louisville...	Louisville Bag & Mfg. Co.	Electric-plant.
Cedartown...	Cedartown Deot Factory.	Develop Iron Mines.	Louisville...	Louisville & Madison	Electric-plant.
Cedartown...	Gibson Mining Co.	Develop Iron Mines.	Louisville...	Woolen Mills Co.	Enlarged Plant.
Cedartown...	Wray Mining Co.	Develop Iron Mines.	Louisville...	Louisville Electric-light Co.	Enlarged Plant.
Cedartown...	John W. Aiken and others.	Develop Iron Mines.	Louisville...	Eclipse Woolen Mills...	Woolen Mill.
Cedartown...	A. E. Buck and others.	Develop Iron Mines.	Louisville...	Silver King Mining Co.	Mining.
Cedartown...	W. L. Hickman & Co.	Manganese Mine.	Louisville...	N. Sid Platt Co.	Shirt Factory.
Cement...	Howard Hydraulic Ce-ment Co.	Cement Works.	Louisville...	E. J. Merche & Co.	Corn Mill.
Chauncey...	A. B. Steele...	Hydr-kiln, &c.	Louisville...	Ballard & Ballard...	Flour Mill.
Columbus...	T. J. Stone...	Cotton Ginney.	Louisville...	Moran Flex St'l Joint Co.	Manufac. Machinery.
Columbus...	Thomas Gilbert Co.	Printing.	Louisville...	Ky. & Ind. Nat'l Gas Co.	Natural Gas.
Columbus...	S. F. Woodall...	Implement Factory.	Madisonville...	W. F. Noel...	Flaming Mill.
Columbus...	Columbus Gas Light Co.	Enlarged Works.	Mayfield...	Boyd Bros...	Saw Mill.
Columbus...	Ga. Midland Brick Co.	Brick Works.	Mayfield...	J. M. Wilford & Son...	Flour Mill.
Columbus...	Columbus Elec. Light Co.	Enlarged Plant.	Mayfield...	Mayfield Water & Light Co.	Water Works.
Convers...	A. N. Goode...	Brick Quarries.	Mayfield...	Mayfield Water & Light Co.	Electric-plant.
Cordele...	S. J. Sibbly...	Electric-plant.	Mayville...	Mayville Ice Factory...	Enlarged Factory.
Cordele...	Sidney Bunn...	Furniture & Coffin Fac.	McHenry...	George R. Stricklee...	Coal Mines.
Cordele...	Cordele Wood & Land Co.	Saw Mill.	Meade County...	Contrary Natural Gas Co.	Natural Gas.
Cordele...	Cordele Guano Co.	Oil Mill & Fert. Works.	Middleboro'gh...	D. K. Samuel & Son...	Planting Mill, &c.
Cromers...	J. T. Crow & Bro...	TSaw Mill.	Middleboro'gh...	L. K. White...	Saw Mill.
Dahlonega...	C. Dredging Co.	Enlarge Operations.	Middleboro'gh...	Middleboro'gh Brick & Tile Mfg. Co.	Brick & Tile Works.
Dalton...	E. O. Hind and others...	Ice Factory.	Middleboro'gh...	Hull, Cairns & Winans...	Develop Timber Lands.
Dalton...	Dalton Gas Co.	Gas Works.	Middleboro'gh...	Mid. Iron & Steel Co.	Four Iron Furnaces, Rail Mill, Steel Plant, Rolling Mill, &c.
Delmar...	M. L. Smith...	Planing Mill.	Middleboro'gh...	Overton & Kresterson...	Brick-yard.
Dempey...	Enterprise Lumber Co.	Lumber Mill.	Middleboro'gh...	E. F. Watts...	Brick-yard.
Douglasville...	Douglasville Min'l Land & Imp. Co.	Mining.	Middleboro'gh...	W. Adder & Son...	Sash & Door Factory.
East Point...	Blount & Hill...	Imp. Fertilizer Works.	Middleboro'gh...	S. S. Smith & Co.	Water W., Elec.-plt. &c.
Elberton...	Elberton Machine Co.	Machine Works.	Middleboro'gh...	S. S. Smith & Co.	Coal Mines & Coke Ov.
Elberton...	James Webb and others...	Cotton Ginney.	Middleboro'gh...	S. S. Smith & Co.	Coal Mines & Coke Ov.
Elberton...	W. H. Mattox, Pres.	Cotton Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh Axe Mfg. Co.	Gas Factory.
Ellaville...	D. McLerd...	Printing.	Middleboro'gh...	Middleboro'gh Middleboro'gh Tannery.	Tannery.
Empire...	Empire Lumber Co.	Planing Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh Fdy. Co.	Iron Foundry.
Empire...	Empire Furnace Co.	Improved Furnace.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Forsyth Bluff...	Ellis Bros...	Canning Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Forsyth...	Forsyth Canning Co.	Canning Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Forsyth...	W. T. Maynard & others...	Oil Mill & Fert. Fac'y.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Fort Valley...	John A. Houser and others...	Water Works.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Franklin...	A. R. Johnson...	Add. Corn Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	M. W. Brown...	Furniture Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	Gainesville, Koux & Co.	Gold Mining, &c.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	Ivey Mountain Mining Co.	Gold Mining.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	James I. Toner...	Printing.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	J. G. Hynds Manfg. Co.	Enlarge Tannery.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	Clark, Bell & Co.	Sash Fac. & Plan. Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	Piedmont Foundry...	Iron Foundry.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	J. L. Hudson...	Wagon Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	H. Henderson...	Saw & Grist Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gainesville...	Mayor and council...	Water Works.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Gibson...	Rueben Dismark...	Chair Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Graysville...	Graysville Min. & Mfg. Co.	Improved Grist Mill, &c.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Griffin...	Brush Electric Co.	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Griffin...	Stephenson & Dismuke...	Broom Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Griffin...	J. T. Manley...	Nat'l & Gin.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Griffin...	Griffin Oil Mill & Fert. Co.	Cotton-oil Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Griffin...	Griffin Oil Mill & Fert. Co.	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Griffin...	Farmers' Co-operative Mfg. Co.	Oil Mill, Guano Fac., &c.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Guild...	W. O. Alexander...	Cotton Gin.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Guyton...	Morgan Rawls and others.	Cotton Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Guyton...	R. H. Couper...	Manganese Mine.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Hartwell...	J. McMan...	Cotton-oil Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Hawkinsville...	W. D. Acton & N. Murphey.	Grist Mill and Gin.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Hephzibah...	W. D. Acton & N. Murphey.	Variety Works.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Hiawassee...	W. D. Acton & N. Murphey.	Variety Works.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Hiawassee...	Hiawassee Nickel & Man-ganese Co.	Nickel Mining, &c.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
High Point...	...	Saw Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Holly Springs...	R. J. Tay...	Grist Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Holly Springs...	Richard Frutal...	Brick Quarries.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Jackson...	Lookout Coal & Clay Co.	Brick Works.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
La Fayette...	W. H. Langford...	Brick Works.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
La Grange...	La Grange Cotton Mills...	Foundry & Mach. Shp.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
La Grange...	La Grange Cotton Mills...	Increased Capital.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
lake Creek...	Johnson & Southern...	Grist Mill & Gin.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	J. P. McConnell...	Shingle Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	Harrison & Richardson...	Shingle Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	Chat. Mining & R. R. Co.	Iron Furnace.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton-oil Mill.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	J. A. & W. A. Roush...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Cotton Compress.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Electric-plant.	Middleboro'gh...	Middleboro'gh Middleboro'gh & Cke. Ov.	Coal Mines & Cke. Ov.
Livingston...	...	Excelsior Factory.	Middleboro'gh...	Middleboro'gh Middleboro'	

LOCATION.	NAME.	BUSINESS.
Charenton.....	Shattuck & Hoffman.....	New Sugar-house.
Chopin.....	Chopin Lumber Co.....	Saw Mill.
Concession.....	Mark Zunts.....	Sugar-house.
Concession.....	George P. Anderson.....	Electric-plant.
Concession.....	George P. Anderson.....	Sugar-house.
Cypremont.....	C. Eustis.....	Sugar-house.
Cypremont.....	A. Pecot & Bro.....	Sugar Mill.
Cypremont.....	Mme. Earnest Buguere.....	Sugar Mill.
Cypremont.....	A. A. Pecot.....	Sugar-house.
Dalcourt.....	S. R. Mathe.....	Sugar-house.
Devalis.....	David Devali.....	Sugar-house.
Donaldsonville.....	E. J. Koch.....	Sugar-house.
Donaldsonville.....	E. Esnault & Co.....	Saw Mill.
Donaldsonville.....	Nolen & Magnin.....	Sugar Factory.
Dorayville.....	L. M. Soulat.....	Sugar Mill.
Dorcyville.....	Trahan & Daigle.....	Sugar Mill.
Dorcyville.....	James A. Ware.....	Sugar-house.
Dykesville.....	Morton Bros.....	Corn and Saw Mill.
Edgara.....	L. D. Martin.....	Sugar-house.
Ellendale.....	James McBride.....	Sugar-house.
English.....	H. P. Kernochan.....	Sugar Mill.
Farmerville.....	W. P. Chandler.....	Saw Mill & Gin.
Farmerville.....	J. Stein & Co.....	Saw Mill & Gin.
Franklin.....	Joseph Birg.....	Sugar-house.
Franklin.....	L. M. Ferris.....	Sugar Refinery.
Franklin.....	Louis Kramer.....	Enlarged Sugar-house.
Franklin.....	Banner Print'g & Pub. Co.....	Printing.
Franklin.....	Rivers & Birdsup.....	Electric-plant.
Gheens.....	John R. Gheen.....	Sugar-house.
Glencoe.....	Novoret & Sigue.....	Sugar-house.
Hammond.....	James & Gaudin.....	Saw Mill.
Houma.....	J. J. & W. L. Shaffer.....	Sugar-house.
Houma.....	Caillouet & McGinnis.....	Sugar Mill.
Houma.....	R. R. Barron.....	Brick-yard.
Houma.....	Heirs W. A. Shaffer.....	Sugar Mill.
Houma.....	John T. Moore.....	Sugar-house.
Howard.....	H. C. Stringfellow.....	Shingle & Saw Mills.
Howard.....	Spoke & Handle Factory.....	
Jeanerette.....	Milmo Stocke & Co.....	Sugar Mill.
Jeanerette.....	Felix Petone.....	Sugar Mill.
Jeanerette.....	A. Moresi.....	Iron Foundry.
Jeanerette.....	A. L. Monnot.....	Sugar-house.
Junior.....	Mrs. Agnes Dougherty.....	Sugar Mill.
Kentwood.....	Woolren & Stanford.....	Furniture & Hoop Fac.
La Fayette.....	La Fayette Canning Co.....	Cann & Box Factory.
La Fourche.....	Cr. Barker & Lepine.....	Sugar Mill.
L. B. Canal.....	John Burnett.....	Brick & Tile Works.
Lake Charles.....	N. V. Warehouse & Se.....	Sugar-house.
Lakeland.....	Mrs. C. Pitcher.....	Sugar-house.
Lakeland.....	Mrs. C. Pitcher.....	Sugar-house.
Lamorie Bdg. Polk & Ferris.....		Sugar-house.
Lane.....	L. A. & C. G. Ellis.....	Sugar-house.
Lawrence.....	H. C. Warmoth.....	Sugar-house.
Lecompte.....	Wearns & Bend.....	Sugar-house.
Lockport.....	Lagarde & Bourgeois.....	Sugar-house.
Louisiana.....	Julius Burguiere.....	Sugar-house.
Manchar.....	J. D. Houston.....	Sugar-house.
McCall.....	Tiran Bros.....	Sugar-house.
Monroe.....	T. N. Conner and D. C. Gibson.....	Brick-yard.
Morgan City.....	A. Booth & Co.....	Oyster-packing House.
Morgan City.....	Dreiblitz & Martin.....	Sash & Door Factory.
New Iberia.....	Gates & Vercy.....	Cotton Mill.
New Iberia.....	W. F. Weeks.....	Sugar Mill.
New Orleans.....	Rescue Mining Co.....	Mining.
New Orleans.....	Pine Wood Distilling Co.....	Distilling Works.
New Orleans.....	Sixth Dist. Sanitary Ex-cavat'g & Mfg. Co., Lim.....	
New Orleans.....	Rosetta Gravel Paving & Improvement Co.....	Paving, &c.
New Orleans.....	Improvement Co.....	Silver Mining, &c.
New Orleans.....	Alexandria Mining Co.....	Increased Capital.
New Orleans.....	Southern Hosiery Mills.....	Increased Capital.
New Orleans.....	Bell Helene Plant. Co., Lim.....	Sugar Factory.
New Orleans.....	J. Sullivan.....	Saw Mill.
New Orleans.....	Southern Electrical Mfg. & Supply Co., Lim.....	Machine Works.
New Orleans.....	O. F. & F. A. Ames.....	Sugar-house.
New Orleans.....	Dunn-Sutcliffe Fur Co.....	Machine Works.
New Orleans.....	N. O. Slaughterhouse & Live Stock Land'g Co.....	Slaughterhouse.
New Orleans.....	Roberts & Co.....	Sash & Blind Factory.
New Orleans.....	Sampson Wood Mfg. Co.....	Enlarge Factory.
New Orleans.....	Whitney Iron Works.....	Electric-plant.
New Orleans.....	Hassel & Davis.....	Rice Mill.
New Orleans.....	Kankakee Ice Co.....	Ice Factory.
New Orleans.....	Johnson Iron Works.....	Iron Works.
New Orleans.....	N. O. Stave & Heading Co.....	Stave & Heading Fct'y.
New Orleans.....	Sullivan Stave Co.....	Stave Factory.
New Orleans.....	A. Delavigne.....	Brick Works.
New Orleans.....	Independ't Cotton Oil Co.....	Cotton-oil Mill.
New Orleans.....	J. B. Le Vert.....	Sugar-house.
New Orleans.....	Louisiana Furniture Co.....	Furniture Factory.
New Orleans.....	Mountain View Mining Co.....	Mining.
New Orleans.....	Lane Cotton Mills.....	Additional Machinery.
Oliver.....	Farmer, Oliver & Co.....	Sugar Mill.
Pattersonville.....	Henry J. Sanders.....	Sugar Mill.
Pattersonville.....	Lewis S. Clark.....	Sugar-house.
Pattersonville.....	Bourcier & Bellesin.....	Sugar-house.
Plaquemine.....	Dugas & Landry.....	Sugar Mill.
Plaquemine.....	Clark & McHale.....	Boiler Works.
Point-a-la-Hache.....	Louisiana Land & Sugar Co.....	Sugar Refinery, &c.
Pointe Coupee.....	J. A. Rougan.....	Saw Mill.
Pointe Coupee.....	A. Rougan.....	Cotton Gin.
Pointe Coupee.....	V. A. Meyer.....	Sugar-house.
Raceland.....	Charles S. Matthews.....	Sugar Mill.
Robertsville.....	Robert Bros.....	Dry-kiln.
Shreveport.....	E. Gates.....	Saw Mill.
Shreveport.....	M. A. Burt.....	Woodworking Factory.
St. Gabriel.....	Sworp & Gressin.....	Sugar-house.
St. John Parish.....	Chaffee & Adams.....	Shingle Mill.
Thibodaux.....	John Calder & Co.....	Sugar Mill.
Thibodaux.....	E. D. White and others.....	Sugar Refinery.
Thibodaux.....	Norvant & Levert.....	Sugar-house.
Thibodaux.....	Lafourche Sugar Ref. Co.....	Sugar Refinery.
Trinity.....	Canining Factory.....	
Waterloo.....	V. A. Meyer.....	Sugar-house.
Welcome.....	J. Siberthum.....	Sugar-house.
White Castle.....	Zuberber & Behan.....	Sugar Refinery.
White Castle.....	White Castle Shingle & Lumber Co., Lim.....	Saw & Shingle Mills.

MARYLAND.

Aberdeen.....	Tarring & Fletcher.....	Saw Mill.
Arrow City.....	McGowan & Hollingsworth.....	Brick-yard.
Baltimore.....	Michael Adams.....	Canning Factory.
Baltimore.....	Consolidated Gas Co.....	Fuel Gas Plant, &c.
Baltimore.....	Baltimore Method'g Pub.....	Printing.
Baltimore.....	Chesap'ce Embroid'g Co.....	Embroidery Factory.
Baltimore.....	Inter. Dist. Tel. & Con. Co.....	Electric Plant.
Baltimore.....	Wood Dist. & Basket Co.....	Dish & Basket Factory.
Baltimore.....	H. F. Miller & Son.....	Tin-box Factory.
Baltimore.....	C. H. Pearson & Co.....	Lime Kiln.
Baltimore.....	Baltimore United Oil Co.....	Oil Works.
Baltimore.....	Balto. Boot & Shoe Mfg. Co.....	Boot & Shoe Factory.
Baltimore.....	Houghton Packing Co.....	Canning Factory.
Baltimore.....	Sadler Publishing Co.....	Publishing.
Baltimore.....	C. C. Bartgis & Bro.....	Printing Office.
Baltimore.....	National Refrigerating Co.....	Refrigerators.
Baltimore.....	Union Butch. Slaughter Co.....	Abattoir.
Baltimore.....	Power Co.....	Electric Lights.
Baltimore.....	Lorentz & Rittler.....	Fertilizer Factory.
Baltimore.....	Eureka Coat Pad Co.....	Manufacture Coat Pads.
Baltimore.....	George Bauerschmidt.....	Brewery.
Baltimore.....	A. F. Bruner & Co.....	Hair & Bristle Factory.
Baltimore.....	Anchor Paste Co.....	New Machinery.

LOCATION.	NAME.	BUSINESS.
Baltimore.....	White & Middleton Gas Engine Co.....	Machine Shop.
Baltimore.....	F. W. Felgner.....	Add'l Tobacco Factory.
Baltimore.....	Michael F. McCormick.....	Factory.
Baltimore.....	C. A. Gambrell Mfg. Co.....	Flour Mill.
Baltimore.....	Chesapeake Guano Co.....	Increase Capital.
Baltimore.....	Globe Solar & Electric Light Printing Co.....	Printing Office.
Baltimore.....	Tunis & Serpell Lum. Co.....	Lumber Mills.
Baltimore.....	Memorial Record Pub. Co.....	Publishing.
Baltimore.....	Samuel Merritt.....	Oil Refinery.
Bel Air.....	Harry S. Robinson.....	Saw Mill.
Boyd's.....	G. A. & F. A. Zeigler.....	Saw Mill.
Buckeytown.....	Rice & Blessing.....	Remodel Flour Mill.
Catonville.....	Catonville Water Co.....	Additional Stand-pipe.
Caroline co.....	T. H. Armstrong.....	Saw Mill.
Ceresville.....	Samuel Hoke.....	Marble Works.
Church Hill.....	Mr. Collins.....	Wood-working Factory.
Centreville.....	Mayor and council.....	Water Works.
Centreville.....	R. R. Cochran.....	Creamery.
Cecilton.....	Warner Bros. Co.....	Fertilizer Works.
Conowingo.....	er & Paper Co.....	Paper Mill.
Cordova.....	Warner & Cabbage.....	Flour Mill.
Cumberland.....	Cumb. Glass Works Co.....	Operate Glass Works.
Easton.....	W. H. Wilson & Son.....	Flour Mill.
Elkton.....	George McKuiklin.....	Machine Shops.
Elkton.....	Deibert & Sons.....	Ship-yard.
Ellicott City.....	C. A. Gambrell Mfg. Co.....	Grain Elevator.
Farmville.....	James Walter.....	Ice Works.
Finksburg.....	F. L. Herring.....	Flour Mill.
Frederick.....	W. R. Steiner.....	Ochre Factory.
Frederick.....	T. Strasburger.....	Cigar Factory.
Frederick.....	Brown & Delashmutt.....	Ice Factory.
Frederick.....	Markell & Wilcoxson.....	Iron Foundry.
Frederick.....	George Babylon.....	Flour Mill.
Glen Falls.....	Mrs. F. Lennot.....	Flour Mill.
Great Falls.....	Runkle Bros.....	Hominy Ml & G'n Elev.
Hagerstown.....	Boyer & Heard.....	Flour Mill & Grain Elev.
Hagerstown.....	Interstate Fencing Co.....	Saw Mill.
Hav. de Grace.....	Larkin & Reed.....	Improved Mill.
Hurlock.....	Jabez Wright, pres.....	Creamery.
Jarrettsville.....	C. W. Amoss.....	Mica Mine.
Jessup's.....	J. F. Lowekamp.....	Canning Factory.
Lime Kiln.....	M. J. Grove & Sons.....	Limestone Quarries.
Mount Airy.....	William M. Singler.....	Paper Mill.
Pocomoke City.....	Young & Colburn.....	Planing Mill.
Port Deposit.....	Benjamin Kipper.....	Stone Quarries.
Rockville.....	Arthur B. Meeker.....	Stamp Mill & Gold Mine.
Rockville.....	Arthur B. Meeker.....	Gold Mining.
Rockville.....	Potomac Gold Mining Co.....	Gold Mining.
Rockville.....	W. V. Bonie.....	Granite Quarry.
Salisbury.....	G. H. Toadvine Lum. Co.....	Lumber Mills.
Singler.....	William M. Singler.....	Paper Mill.
Sykesville.....	W. F. Weller.....	Granite Quarry.
Tunis Mills.....	W. W. Tunis & Bro.....	Changed to Stock Co.
Westminster.....	Robert Frizell.....	Brick Works.
Weverton.....	U. C. Darby.....	Flour Mill.
Winfield.....	Howard M. Zille.....	Creamery.
Wolfeville.....	W. M. Palmer.....	Branch Creamery.
Anacostia.....	D. C. George J. Thomas.....	Mattress Factory.
Washington.....	D. C. Commissioners.....	Water Works.
Wash'tn, D. C.....	D. C. R. Guenther.....	Publishing.
Wash'tn, D. C.....	D. C. Thomas B. Cross.....	Saw Mill & Sash Fct'y.
Wash'tn, D. C.....	D. C. Albert Carry.....	Brewery.
Wash'tn, D. C.....	D. C. Columbia National Land Dredging Co.....	Mine Sand.
Wash'tn, D. C.....	D. C. Evening Star Pub. Co.....	Printing.
Wash'tn, D. C.....	D. C. J. Newton Harper.....	Stone Quarries & Works.
Wash'tn, D. C.....	D. C. Potomac Steam Sand Dredg. & Comp. Co.....	Sand Mining.
Wash'tn, D. C.....	D. C. Washington & Tenallytown Railway Co.....	Electric-plant.
Wash'tn, D. C.....	D. C. Osceola Water Co.....	
Wash'tn, D. C.....	D. C. National Roll Paper & Cutter Co.....	Man. Paper-holders, &c.
Wash'tn, D. C.....	D. C. Nat. Mold & Stamping Co.....	Machine Shop.
Wash'tn, D. C.....	D. C. Consolidated Mfg. Co.....	Increased Capital.

MISSISSIPPI.

Aberdeen.....	W. B. Walker and others.....	Chair Factory.
Athol.....	Joshua Skinner.....	Cotton Gin.
Biloxi.....	N. O. Shell Lime Mfg. Co.....	Lime Works.
Brookhaven.....	H. C. Cussey and others.....	Canning Factory.
Brookhaven.....	Brookhaven Canning & Box Co.....	Canning & Box Factory.
Brookhaven.....	Box Co.....	Canning & Box Factory.
Clarksdale.....	Clarksdale Compress & Warehouse Co.....	Cotton Compress.
Columbus.....	Tombigbee Cotton Mills.....	En. Mill & Electric-plant.
Conehatta.....	W. B. Thornton.....	Saw Mill.
Day's.....	Rosetta Gravel Paving & Imp. Co.....	Gravel Mining.
Edwards.....	C. E. Hooper.....	Saw and Shingle Mill.
Greenwood.....	N. Coker and others.....	Saw Mill.
Greenwood.....	A. H. Barrett & Son.....	Saw Mill.
Greenwood.....	Plant's Oil Mill & Mfg. Co.....	Oil Mill & Fert. Factory.
Greenwood.....	Planters' Compress & Warehouse Co.....	Cotton Compress.
Grenada.....	Gren. Oil & Compress Co.....	Added Machine Shop.
Greenville.....	Miller-Alexander Co.....	Wood-working Fct'y, &c.
Hammond.....	J. T. Little & Co.....	Lath Mill.
Hattiesburg.....	Merid'n Sash & Blind Fac.....	Saw and Planing mill.
Hattiesburg.....	H. Linhurst.....	Saw Mill.
Jackson.....	Farmers' Alliance.....	Bagging Factory.
Jackson.....	Jackson Electric Light Co.....	Incandescent Plant.
Jefferson.....	John A. Mills.....	Saw Mill.
Kosciusko.....	Merchants Warehouse Co.....	Cotton Compress.
Marion.....	Miss. Nursery & Mfg. Co.....	Preserve Factory, &c.
Meridian.....	Meridian Canning Co.....	Preserve & Can Factory.
Meridian.....	Meridian Bottling Works.....	New Building.
Meridian.....	Merid'n Pottery & Mfg. Co.....	Pottery.
Meridian.....	Pioneer Mineral & Soda Water Works.....	Bottling Works.
Meridian.....	S. S. Williams.....	Foundry & Mch. Shop.
Meridian.....	Laborers' Mfg. Co.....	Wood-working Factory.
Meridian.....	W. M. Tette & C. W. Robinson.....	Mfg. Volatile Carbon.
Meridian.....	Meridian Cotton & Wool en Mills & Mfg. Co.....	Cotton Mill.
Meridian.....	Merid'n S'm Laundry Co.....	Laundry.
Mississippi.....	American Timber Co.....	Saw Mills.
Myrtle.....	Citizens' Gas Light Co.....	Canning & Evap. Fct'y.
Natchez.....	Citizens' Gas Light Co.....	Gas Works.
Natchez.....	Citizens' Gas Light Co.....	Electric-plant.
Natchez.....	Chal. Adams.....	Broom Factory.
Natchez.....	M. C. Pankey.....	Brush Factory.
Pearlington.....	Poitevant & Favre Lum.....	Saw & Planing Mill.
Pearlington.....	Goddard & Son.....	Enlarge Saw Mill.
Port Gibson.....	Port Gibson Cotton Mills.....	Enlarge Mill.
Purvis.....	J. Poitevant.....	Saw Mill.
Renovo.....	Fisher-Burnet Lumber Co.....	Saw Mill.
Robinsonville.....	Robinsonville.....	Saw Mill.
Sandersville.....	W. A. Posey.....	Foundry & Mch. Shop.
Scranton.....	Solomon & Miller.....	Saw & Shingle Mill.
Shubuta.....	A. P. Hand.....	Spoke Factory.
Talawah.....	Ladner Bros.....	Saw Mill.
Tupelo.....	J. M. Hoyle.....	Broom Factory.
Tupelo.....	Tupelo Furniture Co.....	Enlarge Factory.
Vicksburg.....	Louisville, New Orleans & Texas Railroad Co.....	Planing Mill.
Vicksburg.....	Vicksburg Cotton Oil Co.....	Enlarge Machine Shops & Double Mill.
Vicksburg.....	Refuge Oil Mill Co.....	Cotton-oil Mill.
Vicksburg.....	Vicksburg Water Sup. Co.....	Water Works.
Vicksburg.....	W. Curphey.....	Lumber Mill.
Water Valley.....	Burns & Crosby.....	Shingle Mill.
Water Valley.....	G. W. Robinson and D. B. McFarland.....	Grist & Saw Mill & Gin.

NORTH CAROLINA.

Albemarle.....	Hearn, Spink & Co.....	Wagon Factory.
Archdale.....	Hammond Mfg. Co.....	Wood-working Factory.
Ashe County.....	Rich Knob Mining Co.....	Additional Machinery.
Asheboro.....	A. W. McAlister & Co.....	Saw Mill.
Asheville.....	French Broad Lumber Co.....	Lumber.
Asheville.....	Tribune Publishing Co.....	Printing.
Asheville.....	Theodore Hobgood.....	Printing.
Asheville.....	H. B. Rossell.....	Grist Mill.
Asheville.....	Asheville Furniture Co.....	Doubled Planing Mill.
Asheville.....	W. H. Young and others.....	Furniture Factory.
Asheville.....	R. L. Dufy.....	Candy Factory.
Asheville.....	Asheville Tobacco Mfg. Co.....	Tobacco Factory.
Asheville.....	H. H. Posey.....	Granite Quarry.
Aberdeen.....	W. C. Clark.....	Planing Mill & Dry-kiln.
Asheville.....	Asheville Lum. & Mfg. Co.....	Dry-kiln.
Bayboro.....	Pamlico Publishing Co.....	Publishing.
Rayboro.....	Potter & Swindell.....	Saw Mill.
Big Falls.....	Mark L. Reid.....	Grist Mill.
Big Falls.....	Big Falls Cotton Mill.....	Enlarge Mill.
Briartown.....	Colfin & Arthur.....	Saw Mill.
Bridgewater.....	Julius Propst.....	Shingle Mill.
Burlington.....	W. L. & E. C. Holt.....	Cotton Mill.
Burlington.....	W. H. Turrentine.....	Wood-working Factory.
Burlington.....	T. B. Moore.....	Wood-working Factory.
Bushnell.....	Mr. Trotter.....	Saw Mill.
Cabarrus Co.....	Furman Mine.....	Mining.
Central Falls.....	Worth Mfg. Co.....	Cotton Mills.
Charlotte.....	Watson & Cecil.....	Tile Works.
Charlotte.....	N. W. Crawford & Co.....	Shoe Factory.
Charlotte.....	S. R. Bartlett and others.....	Reduction Works.
Charlotte.....	Van Lendingham.....	Shoe Factory.
Charlotte.....	Charlotte Oil & Fert. Co.....	Oil Mill & Fert. Fac'y.
Clinton.....	J. H. Royal.....	Corn Mill.
Clinton.....	J. H. Royal.....	Whiskey Distillery.
Columbia Fcty.....	A. W. E. Capel.....	Shuttle-block Factory.
Columbia Fcty.....	Phillips & Allen.....	Saw & Planing Mill.
Columbia Fcty.....	Columbia Mfg. Co.....	Enlarge Cotton Mill.
Concord.....	J. B. Sherrill.....	Printing.
Concord.....	Thomas Rogers.....	Grist & Saw Mill & Gin.
Concord.....	Odell Mfg. Co.....	Add. Cotton Mill.
Concord.....	Cannon Mfg. Co.....	Cotton Mill.
Concord.....	R. A. Brown.....	Brick Works.
Concord.....	T. H. Proctor and others.....	Cotton Mill.
Durham.....	C. M. Herndon.....	Tobacco Factory.
Durham.....	C. M. Herndon.....	Ice Factory.
Elizabeth City.....	C. Guirkin, Jr.....	Electric-Plant.
Elizabeth City.....	G. H. Toadvine Lum. Co.....	Lumber Mills.
Elkin.....	R. G. Franklin.....	Brick-yard.
Elkin Valley.....	Elkin Valley Woolen Mills.....	Enlarge Mill.
Elkin Valley.....	Elkin Valley.....	Spoke & Handle Fct'y.
Fayetteville.....	Cape Fear Canning Co.....	Canning Factory.
Fayetteville.....	John McDuffie.....	Knitting Factory.
Fayetteville.....	Fayetteville Cotton-seed Oil Co.....	Enlarge Oil Mill.
Fayetteville.....	Fayetteville Cotton Mills.....	Cotton Mill.
Fayetteville.....	C. C. Grenamer and N. D. McClure.....	Enlarge Saw Mill.
Fayetteville.....	Fayetteville Bucket Co.....	Double Factory.
Fayetteville.....	J. M. Emmett.....	Woolen Factory.
Franklin.....	Mr. Hurst.....	Saw Mill.
Franklin.....	Mr. Trotter.....	Saw Mill.
Gastonia.....	H. G. Craig and others.....	Cotton Factory.
Gold Hill.....	Gold Hill Mining Co.....	Mining.
Gibson's Sta.....	State Line Oil & Fert. Co.....	Oil Mill & Fert. Factory.
Gibsonville.....	J. A. Davidson.....	Flour, Corn & Saw Mill.
Goldsboro.....	Carolina Rice Milling Co.....	Rice Mills.
Goldsboro.....	Goldsboro Oil Works.....	Cotton-oil Mill.
Goldsboro.....	Enterprise Lumber Co.....	Planing Mill.
Goldsboro.....	Enterprise Lumber Co.....	New Saw Mill.
Graham.....	Sidney Cotton Mill.....	Additional Machinery.
Greensboro.....	Guilford Lum. & Mfg. Co.....	Sash & Door Factory.
Greensboro.....	Guilford Knitting Co.....	Knitting Factory.
Greensboro.....	Mendenhall & Reynolds.....	Sash & Blind Factory.
Greensboro.....	H. A. Lash.....	Sash & Door Factory.
Harriett Co.....	Cape Fear Shingle Co.....	Lumber Mill.
Henderson.....	Walker & Rowland.....	Tobacco Factory.
Henderson.....	W. H. S. Burgwyn.....	Tobacco Factory.
Henderson.....	J. P. Taylor & Co.....	Stemmy & Prize Fct'y.
Hendersonville.....	Hendersonville Mfg. Co.....	Spoke & Hdle. Factory.
Hendersonville.....	Hendersonville Mfg. Co.....	Canning Factory.
Hendersonville.....	Hendersonville Mfg. Co.....	Stave & Barrel Factory.
Hendersonville.....	Hendersonville.....	Water Works.
Hendersonville.....	Vein Mountain Mining Co. Inc. Cap. & Add. Mch'y.	Coal Mine.
Hickory.....	Townsend & Cline.....	Brick Works.
Hickory.....	J. H. Hally.....	Shingle Factory.
Hickory.....	Hedmont Wagon Co.....	Enlarge Factory.
Hickory.....	Hickory Printing Co.....	Printing Office.
High Point.....	E. A. Benconi.....	Tobacco Factory.
High Point.....	W. H. Ragan and others.....	Tobacco Factory.
High Point.....	Snow Lumber Co.....	Sash & Blind Factory.
Hobgood.....	Hobgood.....	Saw Mills.
Indian Trail.....	Indian Trail Milling & Mining Co.....	Mining, &c.
Indian Trail.....	Secret Mine.....	Stamp Mill.
Jonesboro.....	Staley Mills Co.....	Cotton Mill.
Kernersville.....	Kernersville.....	Granite Quarry.
Keyser.....	G. H. Muser and others.....	Canning Factory.
Keyser.....	John A. Mills.....	Saw Mill.
King's Cabin.....	L. E. Grabs & Son.....	Mill.
King's Mount.....	King's Mountain Mfg. Co.....	Enlarge Cotton Mill.
Kinston.....	L. H. & J. T. Newborn.....	Knitting Factory.
Kinston.....	E. M. Hodges.....	Machine Shop & Fdry.
Kinston.....	John Furman.....	Shingle Factory.
Lexington.....	W. A. Watson.....	Brick Works.
Laurinburg.....	Laurinburg Cotton-seed Oil Mill Co.....	Cotton-oil Mill.
Laurinburg.....	Laurinburg Cotton-seed Oil Mill Co.....	Cotton-oil Mill.
Laurinburg.....	Richmond Co. Far. All.....	Cotton-oil Mill.
Lexington.....	J. H. Miller.....	Saw Mill.
Linville.....	F. K. Watkins.....	Saw Mill.
Linville.....	Linville Improvement Co.....	Furniture Factory.
Lumberton.....	A. H. McLeod.....	Others Cotton Mill.
Marion.....	W. Mangum, Manager.....	Tobacco Factory.
Marion.....	John T. Webb.....	Marble Works.
Monbo.....	James Brown.....	Cotton Factory.
Morganton.....	N. C. Phonograph Co.....	Phonographs.
Morganton.....	Morganton Fur. Mfg. Co.....	Furniture Factory.
Morganton.....	Robertson & Lewis.....	Sash & Blind Factory.
Mt. Airy.....	Mt. Airy Granite Co.....	Granite Quarries.
Mt. Airy.....	Messrs. Woodruffe.....	Stone Quarry.
Murphy.....	Nolia Iron, Marble & Talc Co.....	Marble & Talc Quarries.
Murphy.....	American Marble Co.....	Develop Marble Quar'es.
Nebo.....	Nebo.....	Cotton Factory.
Nebo.....	Nebo.....	Barrel & Stave Factory.
Nebo.....	Nebo.....	Vinegar Works.
Nebo.....	Nebo.....	Three Saw Mills.
North Carolina.....	Kendale Gold Mining Co.....	Develop Gold Mine.
New Berne.....	Mr. Stinson.....	Dry-kiln.
New Berne.....	W. H. Jarman.....	Shingle Factory.
New Berne.....	D. Congden & Son.....	Dry-kiln.
New Berne.....	Major Dennison.....	Water Works.
New Berne.....	William Ellis.....	Saw & Shingle Mill.
New House.....	Calton Bros.....	Handle Factory.
Oxford.....	Webb & Boyd.....	Furniture Factory.
Oxford.....	G. H. Collins.....	Printing.
Oxford.....	Oxford University.....	Broom Factory.
Oxford.....	Hicks Tobacco Co.....	Tobacco Factory.
Oxford.....	W. H. M. & Co.....	Copper Mine.
Pikesville.....	K. M. McDonald.....	Planing Mill.
Pikesville.....	Silas Pike.....	Flour Mill.
Raleigh.....	W. M. Rues.....	Cider & Vinegar Wks.
Raleigh.....	Raleigh Water Co.....	Improved Works.
Raleigh.....	Raleigh Cotton Mills.....	Cotton Mill.
Raleigh.....	Smith & Allen.....	Paper Mill.

LOCATION.	NAME.	BUSINESS.	LOCATION.	NAME.	BUSINESS.	LOCATION.	NAME.	BUSINESS.
Corsicana.....	American Cotton Oil Co.	Cotton-oil Mill.	Springdale.....	Kizer Lumber Co.	Planing Mill.	Richmond.....	Virginia Pharrical Co.	Chemical Factory.
Corsicana.....	Corsicana Soap Mfg. Co.	Soap Factory.	Sulphur Spgs.....	Gunn & Ashcroft	Flour Mill.	Richmond.....	Nolandine & Co.	Medicine Factory.
Crystal Falls.....	Black & Robertson	Flour Mills.	Taylor.....	Taylor Water Co.	Water Works.	Richmond.....	Rich. Market & Mfg. Co.	Car Works.
Cuero.....	H. Runge & Co.	Grist Mills.	Taylor.....	Texas & Oklahoma Lum-	Lumber.	Richmond.....	Tredegair Co.	Machine Works.
Oak Cliff Furn. Mfg. Co.		Furniture Factory.	Terrell.....	Port Worth & Denver	Electric-plant.	Richmond.....	Richmond Locomotive &	Enlarge Works.
Dallas.....	J. W. Betterton and others.	Chemical Factory.	Texline.....	Railroad Co.	Machine Shops.	Richmond.....	Universal Electric Rail-	Railway Signals.
Dallas.....	H. G. Damon, prest.	Printing.	Trinity.....	Peter Joserand & Co.	Planing Mill.	Richmond.....	Way Signal Co.	Water Works, &c.
Dallas.....	F. M. Cockrell and others.	Grain Elevator.	Troy.....	Troy Medicine Co.	Medicine Factory.	Richmond.....	Westmoreland Co.	Electric-plant.
Dallas.....	Queen City Electric St.	Electric-plant.	Tyler.....	Tyler Canning Co.	Canning & Can Fac'y.	Richmond.....	Westmoreland Mfg. Co.	Bag Factory, &c.
Dallas.....	Railway Co.	Paper-bag Factory.	Waco.....	Thos. J. Hurley and asso.	Electric-plant.	Roanoke.....	Westmoreland Mfg. Co.	Sash & Door Factory.
Dallas.....	Texas Paper Co.	Piano Factory.	Waco.....	Bell Water Co.	Water Works.	Roanoke.....	Norfolk & West'n R. R. Co.	Machine Shops.
Dallas.....	Blakeney Mfg. Co.	Bed & Mattress Factory.	Waco.....	Slayden-Kirksey Woolen	Enlarged Mill.	Roanoke.....	Cleburne & Walton	Planing Mill.
Dallas.....	Swan Bros. & Moore.	Cotton Gin Factory.	Waco.....	Waco Artesian Inv. Co.	Mat. & Broom Fats, &c.	Roanoke.....	West End Brick & Tile	Brick and Tile Works.
Dallas.....	Texas Boiler Cleaner Co.	Boiler Cleaner.	Waco.....	Stephenson Mfg. Co.	Add. Electric-plant.	Roanoke.....	G. P. Carr	Bottling Works.
Dallas.....	Frio Kaolin Mining &	Kaolin mining &c.	Washburn.....	W. H. Mitchell.	Publishing.	Roanoke.....	J. W. Neal and others.	Electric-plant.
Dallas.....	Texas Coffin & Robt	Coffin Factory.	Winona.....	Tucker & Tucker.	Saw & Planing Mill.	Roanoke.....	Obenshain & Gerder.	Brick-yard.
Dallas.....	Aurora Fibre Co.	Manufacture Machinery.	Wolfe City.....	H. W. Burdick.	Cotton Mill.	Roanoke.....	Robert W. Bridges.	Cracker Factory.
Dallas.....	A. D. Lloyd.	Flour Mill & Grain Ele.	Wolfe City.....	George Leder.	Cotton-oil Mill.	Roanoke.....	Laurel Creek Coal Co.	Grain Elevator.
Dallas.....	Amer. Cotton-seed Oil Co.	Cotton-oil Mill.				Roanoke.....	J. M. Gambill & Co.	Flour Mill.
Dallas.....	Dallas Medicine Mfg. Co.	Medicine Factory.				Roanoke.....	Mate Creek Coal & Lum-	Coal Mines, &c.
Dallas.....	S. Nelson.	Stone Mill.				Roanoke.....	Husley Wheat Separa. Co.	Separator Factory.
De Kalb.....	De Kalb Lumber Co.	Lumber Mill.				Roanoke.....	Virginia Steel Co.	Forge Washer, &c.
De Kalb.....	Emma A. Peters.	Mill.				Rocky Mount.....	Dr. Henry Franklin.	Gold Mine.
Del Rio.....	Denison Canning Co.	Canning Factory.				Roland.....	James Rigby & Son.	Add. Corn Ml. & Elev.
Denison.....	Denison Crystal Ice Co.	Ice Factory.				Ronald.....	James Rigby.	Flour Mill.
Denison.....	Thomson-Houston Elec-	Electric-plant.				Rustburg.....	J. T. Yates.	Flour Mill.
Denison.....	Denison Electric-light	Electric-plant.				Salem.....	Caper Spark Conduct' Co.	Manuf. Spark Arrestor.
Denison.....	Power Co.	Machine Shop.				South Boston.....	Hudson & Mosely.	Tobacco Factory.
Denison.....	Thomas Ellis.	Canning Factory.				South Boston.....	Heavy Easy and others.	Cotton Factory.
Denison.....	H. T. Tene.	Cotton Mill.				South Boston.....	Major Edmonston.	Tobacco Factory.
Devine.....	Devine Mfg. Co.	Grist Mill and Gin.				Staunton.....	Allen & Shaw.	Bottling Works.
Eastland.....	J. S. Daugherty & others.	Coal Mines.				Staunton.....	Railway Sta. Indicator Co.	Manufacture Indicators.
El Paso.....	El Paso Gas & Electric	Electric-plant.				Staunton.....	J. F. Tannehill.	Ice Factory.
El Paso.....	La Fortuna Silver Min'g	Mining, &c.				Staunton.....	Charles L. Weller, prest.	Shoe Factory.
El Paso.....	El Paso Pub. Ore, Samp-	Sampling Works.				Staunton.....	Staunton Imp. Co.	Electric-plant.
Ennis.....	Ennis Roller Mill Co.	Flour Mill.				Suffolk.....		Peanut Factory.
Fisher.....	Ft. Worth Loan & Con. Co.	Electric-plant.				Tazewell C. H. A. J. May.		Brick & Lime Works.
Fort Worth.....	Ft. Worth Mfg. Co.	Flour Mill.				Triford.....	P. W. Brown.	Brick-yard.
Fort Worth.....	M. P. Bewley.	Ice Factory.				Triford.....	Buena Vista Pres. Co.	Preserve Factory.
Fort Worth.....	George Mulkey.	Electric-plant.				Troutville.....	Stone & Slicer.	Manganese Mine.
Gainesville.....	Mayor and council.	Soap Factory.				Tuymans Mill Collins & Yaeger.		Corn Mill.
Galveston.....	N. Meininger.	Barrel Factory.				Weyer's Cave.....	J. W. Cline & Co.	Ice Mill.
Galveston.....	Star Flour Mills.	Flour Mill.				Winchester.....	Winchester Gas Co.	Add. Ice Factory.
Galveston.....	Galves. Rope & Twine Co.	Twine Factory.				Winchester.....	Cumberland Val. R. R. Co.	Grain Elevator.
Galveston.....	C. H. Moore.	Planing Mill.				Wise C. H.	J. Bearinger and others.	Develop Timber Lands.
Galveston.....	J. Reymershofer.	Sugar Refinery.				Wytheville.....	Pilot Ridge Bromide-Ar	Mineral Waters.
Galveston.....	Galves. Cot'n & Woolen	Cotton Mills.				Wytheville.....	Mr. Harkrader.	Flour Mill.
Galveston.....	John A. Caplen.	Woodworking Factory.				Wytheville.....	J. B. Barrett & Co.	Electric-plant, &c.
Galveston.....	Galveston Art. Well Co.	Artesian Well.				Wytheville.....	Pilot Ridge Springs Co.	Mineral Waters.
Galveston.....	Texas Ice & Cold Stor. Co.	Enlarged Ice Factory.				Zuni.....	Whiteley & Jordan.	Peanut Factory.
Galveston.....	Halsey & Bayson.	Hominy Mill.						
Galveston.....	Robert Mills.	Flour Mill.						
Georgetown.....	Wilbar Bros.	Grist Mill and Gin.						
Gordor.....	J. Able & Co.	Flour Mill.						
Gordon.....	Henrietta, nr.	Copper Mines.						
Houston.....	Merchants & Planters'	Cotton-oil Mill.						
Houston.....	J. C. Wimberly and others.	Paper Mill.						
Houston.....	Bender & Benedict.	Soap Factory.						
Houston.....	Southern Pacific R. R. Co.	Creosote Works.						
Houston.....	Southern Pacific R. R. Co.	Enlarged Machine Shop.						
Houston.....	J. Reymershofer.	Flour Mill.						
Houston.....	Wallace O'Leary.	Box Factory.						
Houston.....	Houston Rolling Mill.	Enlarged Mill.						
Houston.....	Tribune Publishing Co.	Publishing.						
Houston.....	Amer. Cotton-seed Oil Co.	Cotton-oil Mill.						
Houston.....	E. M. Verkeiser.	Planing Mill.						
Jefferson.....	Rives & Webster.	Enlarge Woolen Mill.						
Jefferson.....	Jefferson Water Co.	Water Works.						
Jefferson.....	Lone Star Iron & Steel Co.	Iron Furnace.						
Kerrville.....	Charles Schreiner.	Water Works.						
Kerrville.....	Parsons & Richards.	Stone Quarry.						
Lampasas.....	Lampasas Publishing Co.	Publishing.						
Lampasas.....	Henderson & Davidson.	Machine Shop.						
Laredo.....	Laredo Electric-light &	Electric-plant.						
Lasater.....	W. K. Henderson.	Improved Saw Mill.						
Lasater.....	East Line Lumber Co.	Dry Kiln.						
Llano.....	Llano Imp. & Furn. Co.	Gas Works.						
Llano.....	Llano Water Supply Co.	Water Works.						
Llano.....	Llano Water Supply Co.	Fur. Car-wheel Wks. &c.						
Lockhart.....	J. G. Wiley.	Enlarged Water Works.						
Lytle.....	Lytle & Cochran.	Corn Mill.						
Marble Falls.....	Frank Raymond.	Planing Mill.						
Marshall.....	Eureka Nut Lock Mfg. Co.	Nut-lock Factory.						
Mc Kinney.....	Charles Kurtz.	Electric-light Plant.						
Mc Kinney.....	Charles Kurtz.	Ice Factory.						
Mc Kinney.....	N. Texas Mill & Eleva. Co.	Corn Mill.						
Mc Kinney.....	N. Texas Mill & Eleva. Co.	Grain Elevator.						
Mexia.....	B. F. Barron.	Factory.						
Moscow.....	J. C. Gerson and others.	Canning Factory.						
Mount Vernon.....		Creamey.						
Nacogdoches.....	Fort Worth Cous. Co.	Saw Mill.						
Navasota.....	E. L. Budges.	Enlarged Water Works.						
Navasota.....	E. L. Budges.	Ice Factory.						
New Birm.....	New Birm. Electric-light	Electric-plant.						
New Birm.....	Miller & Fuqua.	Brick Works.						
New Birm.....	New Birm. Iron & Land Co.	Iron Furnace.						
New Birm.....	New Birm. Iron & Land Co.	Rolling Mill.						
New Birm.....	W. B. Crawford.	Ice Factory.						
New Birm.....	W. A. Francis.	Enlarged Water Works.						
New Birm.....	W. B. Crawford.	Enlarged Water Works.						
New Birm.....	W. J. Montgomery and	Saw Mill.						
New Birm.....	J. W. Robinson.	Grist Mill.						
Palmer.....	J. A. Jackson.	Cotton Gin.						
Panhandle.....		Water Works.						
Paris.....	A. Demarc.	Foundry & Mach. Shop.						
Plank.....	Middlebrook & Bro.	Enlarged Saw Mill.						
Putnam.....	S. E. Ford.	Gold Mining.						
Quannah.....	John B. Gill.	Flour Mill.						
Ranger.....	Rayner Mill & Gin Co.	Grist Mill and Gin.						
Rayner.....	H. H. Beck & Co.	Flour Mill.						
Reno.....	J. L. Millsbaugh.	Water Works.						
San Antonio.....	Nelson Mackay & others.	Pottery.						
San Antonio.....	Alamo Cracker Mfg. Co.	Cracker Factory.						
San Antonio.....	Ft. Worth Loan & Con. Co.	Electric-plant.						
San Antonio.....	Triumph Rm. Mach. Co.	Refrigerators.						
San Antonio.....	Mackay Brick & Tile Co.	Brick & Tile Works.						
San Antonio.....	San Antonio Coal, Brick	Brick & Tile Works.						
San Augustine.....	W. G. Barton.	Flour Mill.						
San Diego.....	W. H. Parkman.	Cotton Gin.						
San Diego.....	Percy & Co.	Cotton Gin.						
San Marcos.....	Dr. Cook.	Improved Water Powers.						
San Tomas.....	C. B. Wright, Jr. & Co.	Ice Factory.						
Sealey.....	Sealey Ice Mfg. Co.	Ice Factory.						
Sherman.....	Grayson Medicine Co.	Medicine Factory.						
Sherman.....	Mayor and council.	Additional Water Supply						
Smithfield.....		Canning Factory.						

VIRGINIA.

Abingdon.....	Abingdon Water Co.	Water Works.
Abingdon.....	Abingdon Water Co.	Electric-plant.
Accomac.....	C. H. Parker Telephone Co.	Telephone Line.
Alexandria.....	Americanite Mfg. Co.	Powder Factory.
Alexandria.....	W. C. Morrison.	Brick Works.
Alexandria.....	Schuyler Electric Co.	Electric-plant.
Alexandria.....	Columbia National Sand	Sand Mining.
Alexandria.....	Dredging Co.	Develop Granite Quar.
Alexandria.....	Glenn Echo Granite Co.	Brick-yard.
Amherst.....	George W. Dearborn.	Saddle Factory.
Buena Vista.....	Buena Vista Harness &	Saddle Factory.
Buena Vista.....	Saddlery Co.	Water Works.
Buena Vista.....	Buena Vista Co.	Manganese Mine.
Buena Vista.....	Haden & Bragg.	Develop Timber Lands.
Bells Valley.....	Chamberlain, Wheeler &	Limestone Quarry.
Berkeley.....	J. L. Corder.	Electric-plant.
Bland C. H.....	J. L. Corder.	Brick Works.
Bl. Ridge Spgs.....	Crozier Steel & Iron Co.	New Iron Mines, &c.
Bonsack's.....	Wash. Zinc Mining Co.	Zinc Mines.
Botetourt Co.....	Charles N. Huff.	Canning Factory.
Botetourt Co.....	Caleb G. Kinzie.	Canning Factory.
Botetourt Co.....	W. E. Reynolds & Co.	Canning Factory.
Bridgewater.....	Coyner & Stover.	Flour Mill.
Bridgewater.....	Bridgewater Milling Co.	Another Corn Mill.
Buchanan.....	O. E. Obenshain.	Creamey.
Buchanan Co. J.	Bearinger and others.	Develop Timber Lands.
Cave Rock.....	K. B. Stoner.	Iron Mines.
Charlottesville.....	Piedmont Ind. & Land Co.	Canning Factory.
Charlottesville.....	Mr. Blakey and others.	Creamey.
Chatham.....	Tredway & Adams.	Saw Mill.
Clifton.....	Messrs. Evans.	Soapstone Quarries.
Colliertown.....		Saw Mill.
Coyner's Spg.....	F. L. Smiley & Co.	Canning Factory.
Danville.....	Cosby Bros.	Tobacco Factory.
Danville.....	Traylor & Spencer.	Tobacco Factory.
Danville.....	Heidelbach Bros.	Box Factory.
Danville.....	Hicks & Moss.	Tobacco Factory.
Danville.....	R. W. Coffee.	Tobacco Wraper.
Danville.....	R. P. Richardson, Jr. & Co.	Tobacco Factory.
Danville.....	Thomas & McAdams.	Cigar Factory.
Danville.....	Danville Ice Co.	Enlarged Factory.
Danville.....	Riverside Cotton Mills.	Enlarged Mill.
Dublin.....	Pulaski Creamery Co.	Creamey.
Eggleston.....	Morgan & Angel.	Lime Works.
Elkins.....	Elkton Min. & Mfg. Co.	Mining.
Elkins.....	W. W. Jackson.	Marble Quarry.
Elkhorn.....	W. W. Jackson.	Stone Quarry.
Front Royal.....	W. P. King.	Wagon Factory.
Glade Spring.....	A. Lemon.	Saw Mill.
Gladstone.....	Richmond & Alleghany	Machine Shops, &c.
Gladstone.....	Railroad Co.	Water Works.
Gordonsville.....	Banister Cotton Mill &	Cotton Mill.
Halifax C. H.....	Imp. Co.	Water Works.
Hampton.....	Hampton Water Co.	Ironing-board Factory.
Harrisonburg.....	W. J. Houck.	Enlarged Tannery.
Iron Gate.....	Newport News & Missis-	Machine Shops.
Iron Gate.....	sippi Valley R. R. Co.	Brick-yard.
Iron Gate.....		Rolling Mill.
Iron Gate.....	Ken Woolen Co.	Additional Machinery.
Lawrenceville.....	Judge Hicks.	Brick-yard.
Leesburg.....	Mr. Earson.	Electric-plant.
Lee County.....	Peonia Spring Co.	Flour Mill.
Lexington.....	R. A. Lord.	Ice Factory.
Lexington.....	Lexington Telephone Co.	Telephone Line.
Liberty.....	Liberty Woolen Mfg. Co.	Woolen Mill.
Longdale.....	Longdale Iron Co.	Improved Furnace.
Luray, nr.....	G. H. Pollock.	Creamey.
Lynchburg.....	Lynchburg & Durham R.	Machine Shops, &c.
Lynchburg.....	R. Co.	Oil Works.
Lynchburg.....	Baltimore United Oil Co.	Paint Factory.
Lynchburg.....	Piedmont Paint Works Co.	Phos. & Marl Mining.
Lynchburg.....	James River Phosphate	Cement Works.
Lynchburg.....	& Marl Co.	Marl Mining.
Lynchburg.....	Harry O. Locher.	Marble Quarry.
Lynchburg.....	T. T. Evans & S. Patterson.	Marble Quarry.
Lynchburg.....	H. D. B. Norris.	Marble Quarry.
Max Meadows.....	Hamilton Knob Mfg. Co.	Coal Mines.
Midlothian.....	W. B. Gay.	Coal Mines.
Milnes.....	Shenandoah Iron Co.	Iron Furnace.
New Castle.....	Manganese, Iron & Land	Develop Manganese and
New Castle.....	Imp. Co.	Iron Mines, &c.
Newb'ry Mills.....	Newberry & Callahan	Flour Mill.
Norfolk.....	Edison Electric-light &	Electric-plant.
Norfolk.....	Power Co.	Peanut Factory.
Norfolk.....	Norfolk Peanut Roast. Co.	Silk Factory.
Onancock.....	T. K. Martin.	Saw and Grist Mill.
Onancock.....	John T. Bull and others.	Publishing.
Page County.....	J. B. Kendall.	Manganese Mine.
Paint Rock.....	Surfacer & Tingler.	Improved Mill.
Petersburg.....	John W. Poole.	Corn & Flour Mills.
Petersburg.....	Petersburg Water Works.	Water Works.
Petersburg.....	George Campbell & Co.	Bark & Sumac Factory.
Petersburg.....	Atlantic Coast Line.	Elevator.
Petersburg.....	David Dunlap.	Tobacco Factory.
Pocahontas.....	S. W. Va. Imp. Co.	New Coal Mines.
Pocahontas.....	N. & W. R. R. Co.	Electric-plant.
Portsmouth.....	Navy Department.	Canning Factory.
Pulaski.....	Pulaski Foundry Mfg. Co.	Foundry & Mach. Wks.
Pulaski.....		Iron Furnace.
Pulaski.....	S. Valley R. R. Co.	Car & Car-wheel Works.
Radford.....	Mr. Nesbitt.	Foundry & Mach. Shop.
Radford.....	West Radford Land &	Improvement Co.
Radford.....	Radford Stove & Range Co.	Stove Works.
Radford.....	Sturtevant & French.	Sash, Door & Blind Fac.
Rayner.....	R. R. Thomas.	Saw Mill.
Richmond.....	Newport News & Missis-	New Machine Shop.
Richmond.....	sippi Valley R. R. Co.	Stove Works.
Richmond.....	Southern Stove Works Co.	Printing.
Richmond.....	Times Publishing Assn.	Tobacco Factory.
Richmond.....	T. C. Williams Co.	Phosphate & Fer. Wks.
Richmond.....	Bear Lithia Water Co.	Phosphate Co.
Richmond.....	James River Marl &	Cold-storage Whse.
Richmond.....	Phosphate Co.	Enlarged Works.
Richmond.....	Amer. Auto. Refrig. Co.	Additional Machinery.
Richmond.....	Richmond Locomotive &	Mining.
Richmond.....	Machine Works.	
Richmond.....	Rich. Black & Wooden	
Richmond.....	ware Co.	
Richmond.....	Glenmore Iron Co.	

WEST VIRGINIA.

A SPLENDID OPENING.

Unusual Facilities for Making Iron at a Low Cost.

A New Furnace Company Formed Under Extraordinarily Favorable Conditions.

[Editorial Correspondence MANUFACTURERS' RECORD.]

ATHENS, TENN., June 20, 1889.

About two years ago I happened one day to be traveling in company with Col. J. D. Kase, of Pennsylvania, the well-known mineral expert. Col. Kase had been for several years making explorations in Alabama, Tennessee, Kentucky and Virginia, and had gone over much of the mineral area in those States. Naturally, we talked of the advancement the South was making, the industrial development, the status and probable future of the manufacturing towns coming into existence, the manufacture of iron, &c. During the conversation, Col. Kase said:

"There's a little place up here in Tennessee that is going to come into prominence as an iron-making center before very long. It's a little town on the East Tennessee, Virginia & Georgia road called Athens. I'd rather have a furnace at Athens than anywhere else in the South that I know of."

I asked him why.

In reply, he went on to tell me about some extraordinary deposits of very rich ore near Athens, which he said could be mined more cheaply than at any other place in the country that he knew anything about.

A short while ago I had occasion to go to Athens, and almost the first man I saw after leaving the train was Col. Kase. Seeing him brought to mind at once that conversation of more than a year and a half before. I found his views had undergone no change. He still had Athens on the brain. He had inspected and investigated for owners or prospective purchasers many mineral properties in different parts of the South, but he had found none that he thought could equal the Starr's mountain ore, near Athens. And the more thorough his investigations here, and the more extended his researches elsewhere, the more convinced he became of the correctness of his first estimate—or, rather, the higher his estimate grew. When I saw him at that time he had decided to arrange for the building of a furnace here, and was at Athens for the purpose of securing certain concessions from the local land company. I have just learned from him now that he has concluded negotiations, and will go North at once to complete the stock subscriptions and get to work. The details of his deal here, as learned from him and from the land company, show it to be a remarkable transaction. Probably no furnace company in the country has ever before secured the offer of such liberal inducements as are made here to Col. Kase.

The Land Company and the people of Athens have liberally encouraged manufacturing enterprises. They have secured the establishment here of a cotton mill, a woolen mill, a flour mill, and several other industries, and the building of an important line of railroad. The lack of transportation facilities for their ores, which are about twelve miles from the town, prevented, however, the building of a furnace. This difficulty having now been removed, in part, by the building of the line of railroad just mentioned, and to be further lessened by another line, for which a survey has been made, they have taken up the matter of a furnace. They were more ready to consider a proposition from Col. Kase than from anybody else, because they felt assured that a furnace under his management would secure the highest possible

success, by reason of his long experience in iron making, his thorough and accurate knowledge of the business in all its details, and his careful, conservative and economical methods.

The Land Company has agreed to give to Col. Kase 1,200 town lots, in consideration of the building of a furnace with daily capacity of 100 tons. These are not wilderness lots, staked off in the woods, but are in and adjacent to a busy, thriving, rapidly growing town, the population of which has grown, in a little more than a year, from 1,300 or 1,500 to 3,000 or 3,500, and is steadily increasing. These 1,200 or more lots are to be selected alternately with the company, and will, of course, include a part of all their most valuable property. The lots the company has already sold, including those sold just after its organization, more than a year ago, before there had been any development, and including also those most remote from the town's center, have averaged in price considerably more than \$200. Considering the advance in values during the past year, and the more favorable and hopeful conditions now, I should think \$300 a moderate average value to put on the lots now, and the building of the furnace will, of course, very greatly increase this even at the start. But placing the average value at as low a sum as, say \$200, there is a bonus of \$240,000 for the building of a 100 ton furnace, the building of which will itself, from the day the foundation is started, commence adding to the value of the bonus. Besides these 1,200 lots the land company gives as a site for the furnace 20 acres of land bordered by a large and rapid stream, and as eligibly located for the purpose as could be wished. It also gives rights of way for switches, spur tracks, &c. Any other man than Col. Kase would have worked a long time, indeed, before securing from the company such extraordinarily liberal concessions. In addition to this he has, by lease, secured ore privileges that will enable the furnace company to get its ore at a cost that not many furnaces in the South have been able to get down to. All these properties and concessions and franchises will become assets of the furnace company, not as a subscription, nor part of a subscription, but as if they had been granted in full directly to the company.

I can't say just when work on the furnace will begin. Col. Kase will go at once to his home in Danville, Pa., and as soon as the stock has all been subscribed and details of organization completed, he will come back and commence operations.

I was shown by Mr. R. J. Fisher, cashier of the First National Bank of Athens, reports from several experts on the Athens ore. Mr. Joseph Squire, a mining engineer of Alabama, in a report made to some Birmingham parties, says: "The vein is evidently a stratified vein. * * * With regard to the size of the vein, it shows over 100 feet in thickness in several places; it is not likely to be uniform in thickness, but will probably vary from a few feet to 150 feet, averaging, perhaps, 75 feet. I am perfectly satisfied that the ore is dipping under Starr's mountain, and is in larger quantities than any other brown ore, either vein or deposit, that has yet been discovered in Alabama. * * * In quantity of easily accessible brown ore, you have undoubtedly found something extraordinary."

Mr. G. D. Fitzhugh, chief engineer of the Louisville & Nashville Railroad, and a mineral expert of high authority, in an official report, says: "At McSpadden's, the ore was seen at different points in a distance of about 1½ miles. At one of the pits the thickness of the ore deposit was 150 feet, and at two other pits the ore shows a thickness of 100 feet. * * * The measurements were made at right angles against the dip of the ore and lime

stone. * * * This ore is the most valuable I have ever examined."

Mr. I. P. Robinson, a geologist, of Birmingham, in a recent report on this ore, says: "This is the most remarkable brown ore property I have ever seen, and I have examined almost every mine of importance south of the Potomac and Ohio rivers. * * * Here you have an unbroken lead of some twelve or fifteen miles of brown ore, in some places apparently stratified, and at many points more than 100 feet thick. I have never seen such a point for the manufacture of cheap iron."

Besides this brown ore, there is a vein several miles in length and ten to twelve feet thick of red ore of a high grade.

WILLIAM H. EDMONDS.

Increased Activity in Iron.

Colored Labor in Iron Works—Rolling Mills to be Multiplied.

[Special correspondence MANUFACTURERS' RECORD.]

CHATTANOOGA, TENN., June 26, 1889.

Pig Iron.—The past week has developed a much more animated condition of the market than what previously existed. The advance in prices that took place several weeks ago has been fully maintained, and have settled down on a basis of about 50 cts. advance on figures that were previously ruling. Producers are taking the situation in, however, in a very conservative manner, and are not making any effort to run prices up to an unnatural condition. During the past week a large number of consumers have endeavored to secure large contracts for future deliveries upon the old basis, but they have been allowed to pass by the furnaces who are satisfied to sell their products as the demand develops, and who, as a general thing, are realizing about 50 cts. above former figures. A few of the furnaces have withdrawn their output from the market, while others are pursuing a very conservative course. Should this condition of affairs be followed up it will result in a gradual advance to probably about \$1 to \$2 in the not far off future, which will result in a very healthy and satisfactory condition. There has been but little addition to the stocks in the Southern yards, and the stocks that are now on hand are being held by furnaces that are abundantly able to hold what they make.

The question of negro labor as applied to the production and manufacture of iron in the South, is just now coming to the front. Of its availability there is no doubt whatever; and when such papers as the Iron Age and American Manufacturer admit its practicability, is it not time that Southern iron makers should take hold of it in dead earnest? The fact is that, taking into consideration the availability of this kind of labor and the reduced cost of the raw material (pig iron), bar iron will in the near future be an article as prominent in the South as pig iron is now, and the time is not far off when a very large share of the transportation of the railroads will be taken up by bar iron as well as it is now in the transportation of pig. When that time comes, which now seems inevitable, when the fires of rolling mills are lit up in a hundred different places through the South, as they are now through the North, it will be an advent in the history of our country unsurpassed by anything in the past.

GRIST MILL AND GIN—NEW BIRMINGHAM, TEXAS, June 11, 1889.—I will build a roller grist mill and cotton gin; also, have bottling machinery on the way, and would like to receive prices with best terms, &c., on roller mills, cotton gins, presses and soda bottles for Hutchinson steppers.

W. B. CRAWFORD.

WORTH HAVING.

The Stock of the Florence Railroad & Improvement Company.

A Representative Company of a Representative Industrial City of the South.

What Banker Campbell Has to Say of the Resources of this Flourishing Corporation.

A SURPRISING EXHIBIT.

[Special correspondence MANUFACTURERS' RECORD.]

FLORENCE, ALA., June 19, 1889.

Inasmuch as Florence is one of the representative new towns of the South—a town with whose success the industrial prosperity of the South generally is indissolubly linked—the showing made by the recent report of the treasurer of one of the leading companies of this striding Southern city is a matter for congratulation to all who have at heart the development of the South's resources.

The publication of this report gives me an occasion to say a few words that I have been wanting to say for many weeks concerning the mischief that is being done by a certain class of investors, or rather speculators, who invariably set up a great growl unless their stocks go up like a skyrocket within a week from the date of purchase. Few of these fellows ever pause to consider the basis of their purchases, so keen is their hankering after instantaneous profits.

Catering to this mischievous cacophony, the directors of many companies have often jeopardized, aye, have sometimes wrecked the enterprises it was their solemn duty to steer with reference to safety rather than to speed. I happen to know that there has been a great deal of that sort of pressure brought to bear upon the managers of the Florence Railroad & Improvement Co., but to their unspeakable credit they have been fearfully faithful to their trust in subserving the real interests of the company, unheeding idle clamor.

For instance, the directors, had they belonged to the holla-balloo "hoo-rah" brigade, might have spent a matter of \$10,000 out of the large amount entrusted to their keeping in getting up a fleeting boom, and during its brief continuance they might have sold lots enough to have declared a dividend of 20 per cent. on the entire capital of two millions of dollars, and that would have run the stock bought at 20 cents on the dollar up to three hundred for one. However, instead of putting their necks into the gilded yokes held before them, they have pursued a policy that makes this stock a safe investment for men who look to the outcome of to-morrow and the day after rather than the outcome of this morning and forenoon.

From what I have learned during my frequent visits to Florence, I am inclined to bestow a special word of praise on Major J. H. Field and Mr. J. P. Campbell, who are respectively general manager and treasurer of this company, for their courage, fidelity and wisdom in the conduct of its affairs. Its ultimate success will be a victory for Florence, a victory for Alabama, a victory for the South—a greater victory than many that have immortalized admirals and field marshals.

"Great guns! that is putting it too strong," exclaims my greedy reader who is disgruntled because the stock for which he paid 20 hasn't been bulled up to 100. Too strong? No, not strong enough. You and your ilk, alas, are no more capable of understanding the kind of generalship that is necessary to disenthrall this great Southland than would have been those aborigines who thought the earth was bounded by the horizon that surrounded

their own wretched hovels. You do not know how many millions of dollars are necessary to develop the South's resources, nor can you realize how disastrous might be the effect, just at this time, of the bursting of a single bubble.

Great cities cannot be built in a day, and that means that people who invest in companies whose assets are composed largely of land, must wait a reasonable period for that land to be made valuable. These people here at Florence are doing the very things that ought to be done for the accomplishment of that result. They are enhancing the value of the assets of the various companies domiciled here in a vigorous, healthy way, without any flourish of trumpets. They are getting scores of factories built, and hundreds of houses.

But let us take a look at the report, whose publication suggested this letter. Before reading it, however, please remember that its author is no adventurer, no speculator, no schemer, but one of the solid bankers in the State of Alabama.

FIRST ANNUAL STATEMENT OF THE FLORENCE RAILROAD & IMPROVEMENT COMPANY.

FLORENCE, ALA., JUNE 12, 1889.

To the Stockholders of the Florence Railroad & Improvement Co.

In compliance with the requirements of the by-laws of your company, I beg to submit herewith for your information a condensed statement of its financial condition at the close of its first annual business.

LIABILITIES.

Capital stock.....\$2,000,000 00

ASSETS.

Cash loans, to factories (constructing).....\$ 45,407 96

Bills receivable, for loans.. 89,370 22

" " real estate.. 53,189 12

" " stock..... 7,961 33

REALTY.

Houses built..... 8,042 32

Mineral lands, 4,000 acres.. 20,000 00

" " 1,590 " 7,950 02

Lois, 4,976 at \$300..... 1,493,800 00 \$1,588,792 32

Interest on bills receivable..... 1,675 35

STOCKS.

Curry Mfg Co., 35 shares..\$ 31,000 00

Florence L. M. & Co., 478 shares..... 7,170 00

Coleman C. & C. Co., 500 shares..... 15,747 43

Florence Drug Co., 50 shares, 4,878 60

Elec. L. & P. Co., 5 " 511 00

Florence Bldg Assn., 5 " 300 00

American 314 " 1,094 97

McAlester Mfg. Co..... 3,000 00 36,401 30

FUNDRIES.

Property (tools, etc.)..... 499 10

Office fixtures..... 596 70

Book accounts, receivable, table C..... 8,784 93

Cash in Campbell's Bank..\$ 27,153 72

" " in office safe..... 26 39 27,180 11

Total assets.....\$1,839,858 09

NOTE.—Included in bills receivable are a number of notes to secure money advanced to date for construction of factory buildings, which will be taken up by stock in said factories when completed and organized. I have no apology to make for placing so low a valuation at \$300 on each lot, as I am content to value them as you will approve that conservative estimate, while admitting the inadequacy of value.

W. P. CAMPBELL, Treasurer.

NOTE.—Doubtless the attention of many stockholders will be called to the fact that the assets are less than the liabilities. In this connection it should be remembered that the basis of subscription was \$50.00 per share, but upon the basis of par value the intrinsic value of the stock is \$25.00 per share.

If we assume the liabilities of the Company to be \$400,000.00 (or \$200.00 per share), the intrinsic value of the stock would be \$43.33 per share.

W. P. C., Tr.

There is no question in my mind about the value of the properties owned by this company being equal to the par value of the sum total of the stock issued, and it is better to have properties whose value will increase year by year than premature dividends.

The first annual meeting of the stockholders was attended by a number of non-residents, every one of whom went home satisfied with his investment.

The following officers were elected: Judge W. E. Wood, president; Major J. H. Field, vice-president and general manager; W. H. Kendrick, secretary, and W. P. Campbell, treasurer. The directors chosen were: Hon. C. W. Button, of Lynchburg, Va.; Dr. R. A. Patterson, of Richmond, Va.; C. M. Gibbons, Winchester, Va.; Rev. J. B. Hawthorne, Judge W. B. Wood, Major J. H. Field, Judge W. A. Hudson, W. E. Blair and Dr. J. B. Lawton. Taken altogether, it would be hard to pick out a stronger board than this.

THOMAS P. GRANTY.

SAW AND GRIST MILL TO BE REBUILT.—ST. MATTHEWS, June 15, 1889.—My saw and grist mill and gins have been burned, but I expect to rebuild, and would like to get price-list of boilers, engines, mill machinery, gins and presses. W. H. GASKIN.

A Progressive Railroad.

[Special correspondence MANUFACTURERS' RECORD.]

PEACHLAND, ANSON CO., N. C.,
June 16, 1889.

The Seaboard Air Line is a combination of railroad and water transportation that has been of infinite value to the people of this State. This railroad system commences at Portsmouth, Va., and, crossing several of the southeastern counties of that State, enters North Carolina in Northampton county; runs on to Weldon, where it connects with the Atlantic Coast Line, thence to Raleigh, the State capital, and from thence due south to Hamlet, where it strikes the Carolina Central, one of its chief links. This last railroad extends from Wilmington, the chief seaport of the State, and a thriving city, to the beautiful town of Rutherfordton, which lies among the foothills of the Blue Ridge. Soon this system will be extended to Atlanta by the completion of the Georgia, Carolina and Northern Railroad, which leaves the Carolina Central at Monroe, in Union county, and pursues a southwesterly course to Atlanta. Between Weldon and Atlanta this system will cross the lines of the Richmond & Danville, the Yadkin Valley, the Wilmington & Weldon, and the Charleston, Cincinnati & Chicago roads, besides exchanging freights and passengers with many short or local roads, several of which have been constructed by and belong to it. At Portsmouth connections are made with the Bay Line steamers to Baltimore, the Old Dominion to New York, and the Merchants' and Miners' Transportation Co. to Providence and Boston. Here is a system traversing a vast area that, when finished to Atlanta, will make one of the most direct lines of communication between the North and the "Gate City of the South."

The policy of the Seaboard Air Line, under the wise and far-seeing guidance of President John M. Robinson, of Baltimore, has been to assist in developing the territory it traverses by giving the best possible service, and by establishing stations short distances apart for the accommodation of the people. While offering every facility for through traffic, it has always given special attention to local interests, and in consequence many new towns have sprung into existence along its lines, all of which are prospering. The latest of these new town enterprises is Peachland, which was started last year by an organization of New York, Pennsylvania and local capitalists. The name is significant, for this place is the center of one of the finest peach-growing regions in the South. On all the farms, for miles in every direction, are small orchards of this delicious fruit, some of the trees nearly fifty years old, and yet in fine condition. This locality is the highest land between Charlotte and Wilmington, being more than 700 feet above the sea level. The soil is clay, and the rocks are either slate or sandstone. The admixture of these with the soil keeps the roads in good condition in rainy seasons, and saves the side hill farms from washing and gulleying. Grass, clover, corn and the cereals all flourish, and where there is good cultivation the yield is unusually large. Pine, oak and hickory are the principal forest trees, though persimmon, dogwood, and others of value, are abundant. All the fruits of the temperate zone do well except winter apples, but it is especially a country for peaches, plums and grapes. These mature sufficiently early to make the raising of them for northern markets a profitable industry, but as yet nothing has been done in that line. The grapes are made into wine, which commands an average of 75 cents per gallon. The small vineyard of Mr. F. M. Gray, about a mile from this village, covers somewhat less than three acres. He has Concord vines. From their fruit he last

year made nearly 1,200 gallons of wine, which netted him about \$300 per acre. This season his vines are again laden, and he expects an increased crop.

The beautiful location of Peachland, its healthfulness, the fertility of its soil, the abundance of timber for building and manufacturing purposes, and its transportation facilities, make it a place where manufacturing of many kinds can be done advantageously. At present there are a small cannery, an iron foundry and machine shop, and a planing mill. But any other business which employs skilled labor in the conversion of raw materials into merchandise could be conducted here profitably, for land is very low, living expenses are light, and railroad transportation to all points North and South is already provided. B. S. P.

Attractions of a North Carolina Town.

NEW BERNE, N. C., June 23, 1889.

Editor Manufacturers' Record:

I ask the courtesy of a few lines of space for the purpose of making a few statements about New Berne, N. C. The city is an old one, and needs no introduction to the world. It is in the Eastern part of the State. Put your finger on the map of the Old North State, at that point where the rivers Neuse and Trent join, and you will cover the spot that marks her location.

The climate of this place is just superb, and although near the coast and inland twenty miles, the health of New Berne is exceptionally good, and compares more than favorably with any other section. The climate is extremely mild and perfectly adapted to trucking, more truck being shipped from this point than any other in the State.

We have the purest water, artesian wells being the source of supply; abundant labor at moderate price; cheap raw material, and the best shipping facilities, good schools, churches, all denominations, hotels, gas, telegraph, water works, cotton and grain exchange, board of trade, and, in fact, everything that a well-regulated town ought to have, and also a fine fire department, two steam fire engines fully equipped.

We want capital to combine with our own home capital and develop our city into a manufacturing center. There is no location in the country that is better situated for a certain class of manufacturing enterprises. Convenience to the raw material, which is cheap and abundant, best facilities to get product to market, with cheap and abundant labor. We need a cotton factory, car works, furniture factory, cotton-seed oil mill, and, in fact, all kinds of enterprises to work up our raw material and give employment to our labor. In this section land is cheap, and a man who wants to farm can do so more successfully and make more money than in any other section on the face of the earth. The people of New Berne are very anxious to receive any and all worthy and reliable citizens who see it to their advantage to come to us.

J. W. WATERS.

STILL ANOTHER COTTON OIL MILL.—UNION, S. C., June 10, 1889.—The cotton-seed oil mill at this place is an assured fact, and is to be built by the Union Cotton-seed Oil Manufacturing Co., W. A. Nicholson, president. Capital stock is \$25,000.

F. M. FARR.

WILL CHANGE TO ROLLER SYSTEM.—SULPHUR SPRINGS, TEXAS, June 11, 1889.—We have purchased the Farmers' & Merchants' mill at this place, and expect to change to a full roller system shortly of 100 barrels capacity. GUNN & ASHCROFT.

Clean Up and Keep Clean.

The reported case of yellow fever in New York is a seasonable danger signal. It warns our seaport cities to guard carefully against admitting the seeds of disease, or of permitting the existence of anything in which they can take lodgement. It is a sharp notice to every community to become clean and to stay clean. General care and general cleanliness are sure safeguards. Yellow fever and cholera are preventable diseases. If in any community they effect a lodgement and become epidemics, that community will be to blame, and deserving of censure instead of pity, for all the laws governing the inception and spread of both these dread diseases are now fully understood, and at a minimum of care and cost their ravages can be prevented. Every Southern town that is not sanitariously clean should be made so at once, and then kept so forever. The public safety requires this, and public opinion demands it. The Merciful One said: "It must needs be that offences come, but woe unto that man by whom the offence cometh." But when such offences as cholera and yellow fever are needless, how much greater the woe to those through whose carelessness or indifference they are permitted to come and slaughter innocent victims by the thousand, derange the business of vast sections, and compel prosperous communities to appeal to the charity of the country. It is high time that the intelligent citizens in every community should combine their efforts to secure perfect sanitation. Everywhere there are stubborn and ignorant people, who blindly follow the old ways, and create nuisances that become seed-beds of disease. Intelligence must dispel this ignorance, overcome this stubbornness, and insist upon the enactment and rigid enforcement of local sanitary laws, and of a continual careful inspection to make sure that they are obeyed. When this idea is accepted and generally acted upon in the South, it will be, all the year round, the most healthful part of the United States. Fears (the natural consequences of former visitations) that now keep hundreds of thousands of desirable people from making their permanent homes in it, will be obliterated, and the population of every State will receive large and valuable accessions. Overcome this foolish but generally prevalent fear, and the flow of immigration of native Americans from the North to the South will fully equal that which has made the Western wilderness to "rejoice and blossom as the rose." And the easy and sure way to bring this about is for the whole South to clean up and keep clean.

If you are not already a subscriber to the MANUFACTURERS' RECORD send us \$4 and you will receive it regularly for one year, or six months for \$2.00.

SOME FACTS ABOUT FLORENCE, ALA.

Florence is in North Alabama, near the Tennessee line, on the Tennessee river, which is navigable here for large steamers. It is on the Memphis & Charleston Railroad, and the Nashville & Florence branch of the Louisville & Nashville Road.

There are many other places in the South possessing the advantages of a good climate, healthfulness, natural resources and manufacturing capabilities more happily combined and in a higher degree than can be found in any other part of the country. It is believed, however, that at no point in the South, and hence nowhere in America can there be found an aggregate of so many unsurpassed advantages and attractions as exist at Florence.

Florence can make iron as cheaply as any place in Alabama. It has facilities for the manufacture also of cotton goods equal to those of any other place. Anything that uses wood as a raw material can be made here at as low a cost as anywhere in the South.

Thousands of acres of iron ore of a high grade within a few miles of Florence are owned by Florence companies. Limestone is quarried within the town limits. There is enough of it to last for ages.

Cotton mills would get a large part of their supply from the country around Florence. Cypress creek furnishes water power and mill sites enough to make Florence the Lowell of the South.

North of Florence, and up the Tennessee river, there are large areas of timber, embracing a wide variety of hardwoods—forests that the ax has never touched. Within three miles of Florence there are millions of feet of cypress.

Besides its industrial possibilities, Florence is a point of great commercial importance, and could be made the center of an enormous mercantile business. It has the advantage of both rail and river transportation and of competing railroads. Certain railroad movements are in progress now that will give it direct communication in every direction and by different lines.

Florence is surrounded by a wide extent of fertile and productive country, as well adapted for farming, stock raising, fruit growing, truck farming, dairying, &c, as any in the world. Further, it has a climate that is delightful the year round. Its health record cannot be surpassed. It has no malaria. In fact, people who live here enjoy a remarkable exemption from ailments of every sort. It has an abundance of the purest water.

For beauty of location Florence is without a peer. The Tennessee river at this point is as romantic and beautiful as the Hudson. The rolling character of the country, the slopes and hills and alternating valleys furnish a picture to charm an artist's eye. The lovely Cypress creek, a deep and rapid stream emptying into the river just below the town, presents at every turn in its tortuous course a scene of entrancing beauty. The views from some of the higher hills are as fair as the eyes of man ever rested on.

Florence is making more rapid progress, proportionately, than any other town in America. This is a strong statement but it is true. And its growth is on a solid and permanent basis.

Florence is not undergoing any wild real estate boom. Its managers are not seeking to advance real estate prices. It is not their plan to get a quick return for the money they have invested, by the rapid sale of lots at unnatural prices. It is their aim to first build up a town, to locate factories and secure a permanent population, when land will have an actual value and sell at prices from which there will not be a subsequent disastrous reaction. At present real estate is much lower in price than in any other town in the South that has made half the progress Florence has made.

Since the first of September, 1888, over 25 industries have been located at Florence, with an aggregate cash capital exceeding \$2,000,000. This remarkable growth is the result of efforts to induce people to simply investigate the attractions of Florence. Investigation and comparison with other places, on the part of any who are looking for a place in the South to locate, will in nearly every case result in the selection of Florence.

The following are some of the industries in Florence. Some of these are in operation; others are nearly ready for work and others have but recently commenced work on their buildings: A furnace about ready to go into blast, and another partly constructed; a stove factory; a hardware company, with a capital of \$300,000 to manufacture fine building hardware, &c.; a wagon factory, with capital of \$150,000; an agricultural implement works; a handle factory; a woodenware factory; a sash, door and blind factory; a cedar bucket factory; a pump factory; planing mills; a factory to make wooden butter plates such as grocers use; a flour mill; a cotton mill; a jeans factory; a gingham factory; a woolen mill; a cotton gin; a marble company; a roofing and paint company; a shoe factory; a suspender factory; a compress, packet and ferry company; three building and loan companies; a canning factory; several brick factories; a dummy railroad company, and several other enterprises.

The aggregate capital of the industrial, mercantile and development enterprises in Florence exceeds \$15,000,000.

A year ago the population of Florence was 2,000. It is now more than 8,000. There are more than 1,100 carpenters at work in Florence and they can't build houses fast enough to keep up with the increase in population. Before the first of January next there will be 15,000 people living here.

Limited space allows here only the briefest summary of a very few of the more important facts about Florence. For more detailed information write to any of the following companies. Or better still, come down and see for yourself. Investigation is all that Florence asks or needs.

Railroad and Improvement Co.

Lauderdale Manufacturing Co.

Cotton and Iron Co.

Florence Investment Co.

SHEFFIELD, ALA.

The Iron Manufacturing Center of the South.

At the head of navigation, on the Tennessee River, Sheffield is the natural outlet for the mineral and manufacturing products of Alabama and the neighboring States seeking a water route to points on the Ohio and Mississippi Rivers, and to the Gulf of Mexico, as well as the best distributing point over Alabama, Eastern Mississippi and East Tennessee, South Carolina, Georgia and Florida for Northern and Western produce, groceries, provisions, machinery, &c. Three Railroads already completed and in operation, and several others assured. Principal shops of the Memphis & Charleston Railroad, in which cars and locomotives are to be built, are under contract to be erected here. These will employ between four hundred and five hundred mechanics, and consequently, with their families, will make an increase in population of at least two thousand people. Shops of three other railroads are contracted to be located here, some of them being now under construction.

Five Completed Blast Furnaces,

HAVE A CAPACITY OF 700 TONS PIG IRON PER DAY.

Experts do not hesitate to say that iron can be manufactured more cheaply at Sheffield than at Birmingham, and its river transportation facilities will enable Sheffield iron to reach the principal markets at a saving of from

\$2.00 TO \$2.50 PER TON.

The quality of the iron produced is pronounced by consumers to be the best from any furnaces in the South.

The following are among the Corporate and Private Enterprises belonging to Sheffield:

- 1 The Sheffield Land, Iron & Coal Company, capital \$1,000,000.
- 2 The Sheffield & Birmingham Coal, Iron & Railroad Company, capital \$7,500,000, owners and operators of three blast furnaces, the Sheffield, the Sheffield & Birmingham Railroad, coke ovens and coal mines near Sheffield.
- 3 The Sheffield Furnace Company, capital \$150,000; assets \$500,000.
- 4 The Lady Ensley Furnace Company, capital \$200,000.
- 5 Enterprise Publishing Company, capital \$25,000; publishes daily paper with associated press report and weekly paper.
- 6 The Electric Light and Gas Fuel Works, \$25,000.
- 7 The Sheffield Ice Company, capital \$25,000.
- 8 The Sheffield Manufacturing Company, \$30,000.
- 9 The Sheffield Contracting Company, \$60,000.
- 10 The Eureka Brick & Lumber Company, \$30,000.
- 11 The Sheffield Furniture Manufactory.
- 12 The Howard & Busch Brick Company.
- 13 The Sheffield Bakery and Bottling Works.

- 14 The Sheffield Mineral Paint Company, \$50,000.
- 15 The Sheffield Agricultural Works, \$40,000.
- 16 The Sandstone Quarry Company.
- 17 The Sheffield Cotton Compress Company, \$60,000.
- 18 Millar Brothers, Steam Laundry.
- 19 Water Works, already expended \$30,000.
- 20 Sheffield Street Railway Company, \$50,000.
- 21 Sheffield & Tusculumbia Street Railway Co., \$50,000.
- 22 First National Bank, \$100,000.
- 23 Cleveland Hotel Company, \$50,000.
- 24 Sheffield Hotel Company, \$120,000.
- 25 East Sheffield Land Company, \$500,000.
- 26 Hull & Keller's Fern Quarries.
- 27 Vorhees' Galvanized Iron Cornice Factory.
- 28 The Sheffield Quarries.
- 29 Mobile Real Estate Company, \$50,000.
- 30 Sheffield Real Estate Company, \$125,000.
- 31 Sheffield & Mobile Improvement Company, \$100,000.
- 32 Sheffield Stove Works, \$50,000.
- 33 Henderson Milling Company, \$100,000.
- 34 Globe Iron & Brass Works, \$10,000.

- 35 Knowles Knitting Mill, \$30,000.
- 36 Sheffield Tapestry Works, \$40,000.
- 37 Robbins Machine Shop and Foundry, \$50,000.
- 38 Sheffield Cotton Mill, No. 1, \$50,000.
- 39 Owen Pink Mixture Company, \$100,000.
- 40 Bell Telephone & Telegraph Company.
- 41 Fould's Shoe Factory, \$30,000.
- 42 Enterprise Wood-working Company, \$30,000.
- 43 The Sheffield Harness & Saddlery Company, \$20,000.
- 44 Principal Shops of the Sheffield & Birmingham R. R.

Aside from the foregoing, the following are in course of construction and may be considered positive: Principal Shops of the Nashville, Florence & Sheffield Division of the Louisville & Nashville Railroad.

Reasonably certain to be secured in the near future are the following, in regard to which negotiations are pending: A Rolling Mill, a Large Machine Shop, a Cotton Mill, a Large Steel Plant.

GOOD WATER.

Free Public Schools and Churches

Drainage Excellent. Health and Climate Unsurpassed.

Splendid Opening for Men of Push and Energy.

No Better Point for Profitable Investment.

— NO "OLD FOGY" ELEMENT HERE. —

Sites for Manufacturing Enterprises,

AND FOR FREE PUBLIC SCHOOLS AND CHURCHES,

Donated by Sheffield Land, Iron & Coal Company.

Population January 1st, 1887, 700; August 21st, 1887, by actual count, 2,583. Increase of population, 300 per cent. in eight months, and only limited by accommodations. Present estimate (August, 1888) fully 3,500. Four years ago the site of Sheffield was cultivated as corn and cotton plantations, and was without a railroad. Numerous two and three story brick business houses, and one and two-story dwellings have been, and are being erected. The class of buildings will compare favorably with those in cities of 20,000 inhabitants. Limestone of excellent quality for fluxing iron in unlimited quantities at the furnaces' sites. First-class building stone and brick clay abundant. Rich and extensive deposits of Brown Hematite iron ore within twenty miles, along the lines of two Sheffield railroads, which, by actual results in the furnaces, yield above 50 per cent. metal. Iron of high grade is being made with a pound of coke to a pound of metal—a result never before accomplished with Southern ores and coke. The Sheffield & Birmingham Railroad runs through the heart of the Warrior Coal Fields, which abound in first-class Coking, Steam, Gas and Grate Coal. Timber is abundant and cheap. The Memphis & Charleston Railroad, Sheffield & Birmingham Railroad, and Nashville, Florence and Sheffield branch of the Louisville and Nashville Railroad are now in operation into Sheffield. Surveys of three other railroads have been recently completed to Sheffield, which will soon be the best combined river and railroad transportation center in the South. Every merchant and every established manufacturing enterprise is doing a profitable business. More are needed. For further information address

WM. L. CHAMBERS, Vice-President and Manager,

SHEFFIELD LAND, IRON & COAL COMPANY, - - - SHEFFIELD, ALA.

NEW DECATUR

ALABAMA

The New Industrial City of the Great Tennessee Valley.

DESCRIPTION OF ENTERPRISES ALREADY ESTABLISHED:

THE UNITED STATES ROLLING STOCK CO.'S PLANT, attracted by the admirable location of New Decatur, by its extraordinary facilities for obtaining cheap timber, iron and coal, and by the liberal inducements offered by the **DECATUR LAND, IMPROVEMENT & FURNACE CO.**, who laid out the town of New Decatur, the United States Rolling Stock Company abandoned their works at Urbana, Ohio, in 1888, and commenced the construction of new works on a grand scale at New Decatur, with new and improved machinery for the manufacture of every description of freight cars, including cabooses, refrigerator cars, etc. On May 1st, 1889, the buildings were so far advanced that work was commenced on a contract for 400 cars for the Central Railroad Company, of Georgia, and contracts are already signed for 1,500 more cars for other companies.



DESCRIPTION.

The shops and grounds cover 50 acres, the greater area of which lies back about 2,000 ft. from the river, there being, however, a frontage on the Tennessee River. The buildings now completed are as follows: Wood-working mill 500x105 feet; erecting shop 500x105 feet; truck shop 100x80 feet; forging and castings shop 100x80 feet; blacksmith shop 300x90 feet; machine shop 200x90 feet; bolt-making shop 80x60 feet; bolt-cutting shop 80x60 feet; four-roomed lumber-dryer, the holding capacity being 200,000 feet, and the drying capacity per day about 50,000 feet; storehouse (two stores) and office building.

The following additional buildings will soon be completed: Car repair shop 700x60 feet; foundry 224x112 feet; paint shop 500x105 feet; planing mill 130x100 feet; together with such necessary buildings, as oil house, paint house, etc.

The wood-working mill, containing 90 machines of the most approved type, is run by a pair (double) of condensing Corliass engines of 700 nominal horse power. The machine, bolt making, bolt cutting and blacksmith shops are entirely independent of these engines, being run by a single engine of the same manufacture of 125 nominal horse power.

The ground not taken up by the buildings is being covered with tracks, and when completed the yards will have 10 miles of rails. The entire grounds are being well drained by a thorough sewerage system, with 1½ miles of sewer pipe. Water for steam and other purposes is supplied from the Tennessee River and also from an artesian well 176 feet deep. A water tank has been erected, having a capacity of 125,000 gallons.

The boiler house, with a battery of eight boilers, is a brick structure 50x40 feet, with two-story bin for coal and shavings. The wood mill is

being piped throughout and the shavings will be carried direct to the boilers or to the bins, as may be desired. The stack (brick) is 123 ft. high.

Probably no other car shops in the United States have a better laid out plant or machinery so complete in all details. Every improvement known in car building is to be found there, and any defect or inconvenience that past experience has brought to light has been remedied in building the new shops.

The following is a list of machinery furnished by Mr. George Place, of New York, for these works: One pair 700 horse power horizontal condensing Corliass engines, fly wheel pulley 18 ft. diameter, 78 in. face, turned for two belts, and carrying two 36 in. belts; also one 125 horse power Corliass engine; eight tubular boilers about 100 horse power each; about 2,500 ft. of steel shafting, 360 hangers, 215 couplings, about 375 wood pulleys, made in two parts (Edison Machine Co.) In the wood-working mill about 75 of J. A. Fay & Co.'s latest and most improved car building machines. In the machine shop about 40 of Bement, Miles & Co.'s latest and most improved iron machines, five or six smaller drills and some small lathes. In the smith shop seven or eight Bradley cushioned hammers, large punching and shearing machine, Sturtevant blowers, complete plant of underground pipe, four bull-dozers or bending machines, from 30 to 40 latest and most improved bolt machines, such as bolt headers, bolt cutters, both double and single, and nut tapping machines (National Machine Co., Tiffin, O.) In the tool room, universal and plain milling machines, small lathes, drills, etc., a complete plant for drying lumber on the standard progressive system, also 25,000 to 30,000 feet of best oak-tanned leather belting.

For Maps, Pamphlets and other Information about New Decatur, address

The Decatur Land, Improvement & Furnace Company, New Decatur, Alabama.

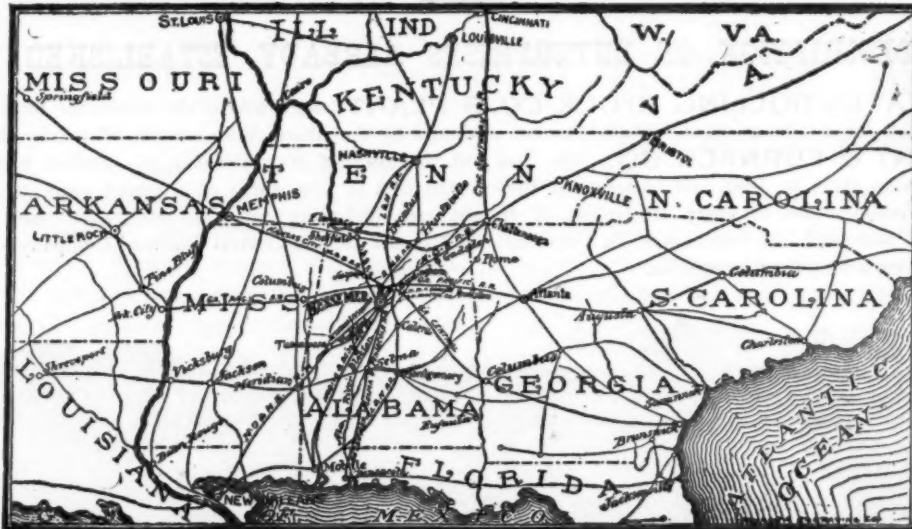
The Bessemer Land & Improvement Company,

Office-Nineteenth Street, next to the Bank of Bessemer.

ITS TRANSPORTATION ADVANTAGES.

In an area of four blocks nine lines of railways center: The Queen and Crescent Route; The Louisville & Nashville Min'l Line; The Bessemer & Huntsville R. R.; The Georgia Pacific R. R.; The Kansas City, Memphis & Bessemer R. R.; The Bessemer & Tuscaloosa R. R.; The Bessemer Dummy Line (standard gauge). All of these lines are running to Bessemer. The Bessemer & Huntsville is completed as far as Village Springs, forty miles on the way up Murphree's Valley, with its ultimate terminal point at Huntsville. It is being rapidly extended. The Bessemer & Tusca-

loosa is completed to Woodstock, a distance of thirty miles, lacking only eighteen miles of reaching Tuscaloosa. At Woodstock this line connects with the Blocton Coal Mines Railway. The lines of the Bessemer, Selma & Pensacola R. R. and Mobile & Bessemer R. R., now under contract and in process of construction, both center in this area. The Sheffield & Bessemer R. R. is projected to Bessemer. It is now built as far as Jasper, forty miles northwest of Bessemer.



Some Facts About Bessemer, Alabama.

Founded April 12, 1887.

In all the world there is no spot where the economic conditions of iron making are so perfectly and practically combined as at this city of Bessemer, Alabama.

Upon this fact was based the origin of Bessemer; upon this fact depends its present existence and all its future possibilities. Men may come and men may go, but the fact remains that North Alabama is the great storehouse of iron and coal in North America, and Bessemer is its natural center of production and practical, common-sense business men have shown their faith in it by the investment of millions of dollars and the creation of industries that give employment to thousands and furnish the means of comfort and happiness, of education and refinement to many homes.

Situated in the foot hills of the Apalachians in a beautiful valley, well watered and timbered, bordered on the northeast by the Button Mountains, locally known as the Red Mountains, and on the northwest by the Rock Mountains. It is but three miles as the bird flies across the valley from mountain to mountain. On the one side are the great Warrior coal fields, on the other an inexhaustible supply of iron ore, while in the valley between, the Trenton limestone crops vertically. Half way between the Ohio River and the Gulf of Mexico, remote from the rigors of the Northern winter, equally exempt from the heat of the low lands of the Gulf Shore, secure by its mountain elevation from the dreaded scourges of the tropics, with a pure, dry, bracing atmosphere, surrounded by an excellent grazing country where stock can be kept all winter without housing, where cotton and corn can be profitably raised, where the peach, the apple, the pear and the plum thrive, where grape culture on the sunny slopes of the hills is soon to become a special industry. The Northern visitor to this favored locality in February leaves behind the blizzard and dreary expanse of snow-covered country to find the fruit trees in bloom, the ground carpeted with green, the wild flowers in bloom and the birds singing merrily in the woods, while from the depths comes the never-ceasing, inexhaustible tribute of coal and iron to reward the industrious worker.

Scarcely two years have elapsed since a leading capitalist at Birmingham sold his furnace and mining interests and immediately projected a magnificent furnace plant on the site of what is now Bessemer, at the same time developing ore and coal mines. He

simply went to the source of supply, for it is well known that Bessemer supplies three-fourths of the iron ore to the Birmingham district and Chattanooga. The establishment of rolling mills and kindred industries immediately followed, and two years ago the city was projected.

The result is perhaps without parallel in history and without a personal visit and inspection will almost stagger belief. In two years there has grown up a bustling little city of nearly five thousand inhabitants and nearly seven hundred substantially built brick and frame houses. Nine lines of railway, four passenger depots, two hotels of architecture, design and finish that would be a credit to Chicago, blocks of brick and marble front stores that would not be out of place in New York; seven churches, a handsome public school building, the most extensive rolling mill in the country; five furnace plants, two in operation, the others under rapid construction, electric light, ice works, planing mills, fire-brick and terra cotta works, two foundries and three brick yards, water works with ample supply of mountain spring water for a large population.

It is no wonder that capital and immigration have been attracted to a scene of such unparalleled development and industry, and it is safe to say that nearly if not quite ten millions of dollars have already been invested at Bessemer.

The policy of the Bessemer Land & Improvement Company, which projected this city, has been to build the city gradually and substantially and upon a firm and enduring basis. With this policy steadily in view the company has never promoted nor has it participated in any speculative movements, but it has extended the broadest encouragement to immigrants and has made substantial inducements to the projectors of new enterprises.

The result is already apparent in new enterprises in operation which give employment to skilled workmen, and so lay the foundation of new homes. With the attention of the people in the Northern States of the Union directed to new fields of industry and the founding of new homes in which to work out prosperous careers, we extend an invitation to all to visit us and personally examine these advantages.



CHARLESTON BLOCK, 300 FEET FRONTAGE, 2D. AVE., BET. 18TH AND 19TH STREETS.

For particular information as to price of lots, manufacturing sites and inducements to establishing plants in this unrivalled locality, address

H. M. McNUTT, Secretary.

Wm. H. Portney
President.

Anniston

THE CENTER OF
Iron and Cotton Industry
AND MINERAL WEALTH.

"The Model City of the South."

IT IS

The Profits of Labor only that can add to the wealth and prosperity of a nation or community. It is this only that can make business successful and profitable, sustain and add to the value of real estate.

WHERE

Nature's resources are greatest, where nature's capital in rich agricultural lands, and where iron, coal and other useful minerals are most abundant, most accessible and of superior quality for all purposes, there will capital find its safest investment, largest returns and labor reap its richest reward. It is to the Anniston District where the best professional mining engineers and experts of the United States declare the great center of the iron industry of the South will drift, where its manufacture will be most permanent and profitable, and where ores in the greatest abundance and accessibility exist, and where they will be most easily mined, that this applies.



WOODSTOCK FURNACES—ANNISTON.

The Development of the Past Fifteen Years

Confirms all this, and every year convinces the experts of the correctness of their judgment. It is no longer opinion based on scientific and practical education; it is a fact that is clearly and successfully demonstrated, so that the visitor to the Anniston District can see at every step. The four iron furnaces that have been so long and successfully operated, and the new plant now being erected, and rapidly approaching completion, which will be capable of producing one hundred thousand tons of pig iron a year, demonstrate that

NOWHERE ELSE IN THE SOUTH

Has the iron industry been so profitable and so successful, or been established on so permanent a basis, and of no district is this so universally conceded by all, while nowhere else have arrangements been perfected and already established on so complete a scale to work the crude iron into higher branches of manufacture to increase its value, and to bring into the district the profits of skilled labor. **THE GREAT CAR WHEEL WORKS OF NOBLE BROS. & CO.**, their rolling mill and steam forge and machine shops, and the Alabama Car Works, have been absorbed by the

UNITED STATES ROLLING STOCK COMPANY,

With a capital of \$4,000,000, for the purpose of adding to and enlarging the entire plant to build **TWENTY CARS A DAY**. Everything that goes into the creation of a car, except the tin for the roof and the wire nails, will be created from Anniston's crude material by her labor and skill. Fifty tons of wheel iron will be made into car wheels daily, twenty tons into car axles, fifty tons of pig iron into car and other castings, and fifty tons into bar iron and bolts, making nearly ten thousand dollars per day added to the wealth of the country by profitable labor converting nature's capital to the use of man. This company have a capital of \$4,000,000, and their Anniston works will represent a cash outlay of \$1,000,000. One thousand skilled mechanics will be employed as soon as the great enlargements under way can be completed.

THE STEEL BLOOMARY

Consumes and increases the value of twenty tons of pig iron per day, while the Pipe Foundry converts to the use of man **TWO HUNDRED TONS OF PIG IRON PER DAY** in one of the largest and best planned and most convenient labor-saving works on this continent. *The Foundry of Murray & Stevenson, Engine and Machine Works of Pinder & Co., and Boiler and Sheet Iron Works of J. & D. Noble*, all add to the consumption of crude material by the creation of finished work.

NOR IS IT TO IRON ALONE

That Anniston relies for increase of wealth and population. The Cotton Factory, with eleven thousand seven hundred spindles and three hundred and seventy-five looms, employing over three hundred and fifty operatives, adds greater value to the products of agriculture by converting six thousand bales of cotton into cotton cloth. The immense ninety-inch Morse Cotton Compress, with its brick warehouses, is fast making Anniston a cotton market and commercial center, and aiding its wholesale and retail merchants to extend and hold the trade of the country tributary to Anniston that its system of railroads has opened to them. The Georgia Pacific, the East Tennessee, Virginia & Georgia Railroad systems,

Give Direct Communication and Through Rates

To all parts of the country, while the Anniston & Atlantic Railroad, built by Anniston capital to open up new agricultural and mineral resources, gives Anniston, by connection with the Central of Georgia system, communication with the Atlantic sea coast and the new Anniston & Cincinnati Railroad, built and owned by Anniston citizens, opens up new resources and connections, and a shorter line with the great Northwest.

The proposed extension of the Anniston & Atlantic Railroad to Blocton will give another and shorter line to the great Cahaba Mines, producing the very best coal for domestic and manufacturing purposes in the South. Forty thousand acres of these coal lands, upon which a million and a half dollars have been lately spent in opening new mines and building several hundred coke ovens, **ALL OWNED AND CONTROLLED BY ANNISTON CAPITAL**, and developed to mine and manufacture three thousand tons of coal and coke per day, secures to Anniston for generations to come a full and certain supply of cheap fuel for all her industries, operated where a rich agricultural country can feed a manufacturing and commercial people, and where the



ALABAMA MANUFACTURING COMPANY'S COTTON MILL—ANNISTON.

Best, Healthiest and Most Invigorating Climate in the World,

With mountain air and pure water, and an elevation of nine hundred feet above tide water, insures the health and comfort of the workman and his family; where health and comfort stimulate and lighten labor, and secure to it and its industries the reward due to both. It is these advantages which have been given by nature that enabled Anniston's citizens to create her past and present prosperity, and which secure her future. It is that they may participate in and avail themselves of these advantages that Anniston invites **NEW CAPITAL AND TALENT AND ENERGY** from all sections. We invite all to come and see, and on the spot to judge for themselves of Anniston's great resources and possibilities. The comfort and quiet of the famous Anniston Inn will make a visit to our city a treat and pleasure. Any information, attention and courtesy will be given and shown by addressing or applying to the

ANNISTON CITY LAND CO., Anniston, Ala

Morristown, Tenn.

The Plateau City of the Great Valley of East Tennessee

is beautifully located on a plateau of Bay's Mountain, about equi-distant from the Cumberland Mountains which bound East Tennessee on the northwest, and the Alleghany Mountains which bound it on the southeast, and is 300 feet above Holston River, which washes the north base of the plateau three miles from the city. Its mean elevation above sea level is about 1,350 feet, while the hills and mountains immediately surrounding it rise to an altitude of 1,935 feet, affording views of surprising extent and grandeur, and at the same time so modifying the temperature that the thermometer rarely registers higher than 90° in summer or lower than 10° in winter. Its drainage is admirable, and malaria is unknown. It has nearly trebled its population since 1880, having now about 4,000 inhabitants. It is the commercial and business center of the richest and most extensive agricultural district in the State, where all the cereals and all the grasses

and tobacco are grown to perfection, and where fruits and berries abound. It has hundreds of thousands of acres of uncultured forests accessible to it, abounding in Poplar, Pine, Hemlock, six varieties of Oak, Chestnut, Hickory, Cedar, Maple, Birch, Beech, Sycamore, Gum, Locust, Laurel, Buckeye, Mulberry, Ash, Cherry and Walnut. The Celebrated East Tennessee Marble underlies a part of the city, and it is surrounded with rich deposits of Iron Ore, Manganese Ore, Zinc Ore and Lead Ore. It has been said by one who has made a study of the subject, that within a radius of 50 miles around Morristown every variety of iron ore in the United States can be duplicated, and a coke can be made equal to Connellsville coke. We claim without hesitation that Morristown has in its immediate vicinity richer mineral ores, and a greater variety of them, than any city on the Continent.

MORRISTOWN

has Railroad Facilities equal to any city between Lynchburg and Chattanooga, and they will be speedily increased by the completion of the Carolina, Cumberland Gap & Chicago Railway, making the shortest possible railway route between the great cities on the Ohio River, Cincinnati and Louisville, and the seaboard cities, Charleston, Port Royal and Savannah. Besides, the Baltimore & Ohio Railway will probably extend a branch to it from Lexington, Va., and the Tennessee Midland will in all probability be built to Morristown, and a line be built giving direct connection with Atlanta.



MAP SHOWING RELATION OF MORRISTOWN TO THE COUNTRY AT LARGE.

MORRISTOWN

has a citizenship composed almost exclusively of native born Americans. It boasts a splendid system of Graded Schools, Five Commodious Brick Churches, the finest Courthouse in Upper East Tennessee, an Opera House that will seat 600 people, two Solid Well Managed Banks, a flourishing Building and Loan Association, two of the Largest Commercial Flouring Mills in the South, Stove Works, an Agricultural Implement Factory, two Woodworking Factories, a Tobacco Factory, a Carriage and Wagon Factory, and many industries of lesser note.

It is lighted with electricity, and has water works under contract, and is now inaugurating a system of street railways. Its climatic advantages, its unsurpassed record for healthfulness, its abundance of pure water, its central and beautiful location, its transportation facilities, its fruitful agricultural surroundings, its contiguity to rich and exhaustless fields of iron, manganese, zinc and lead ores, marble, coal and timber, mark it as a place destined to be the commercial, manufacturing and railway emporium of Upper East Tennessee, Western North Carolina and Southeastern Kentucky.

To expedite this destiny the city authorities have wisely exempted from taxation for ten years all manufacturing establishments that will give employment to fifteen or more persons, and the county authorities have done the like, so that manufacturing establishments will be exempt from all taxation for ten years, except the merely nominal tax for State purposes. There has been no "boom" or inflation of prices at Morristown, and, as it possesses within itself and contiguous to it almost every element of wealth, it now presents the most inviting field for investment of any city in the South.

Persons who may desire fuller information can obtain it by calling on or addressing

MONTVUE LAND COMPANY

POSTOFFICE BUILDING, — MORRISTOWN, TENNESSEE.

FORT PAYNE, Alabama.

★ COME TO ★ The NEW ENGLAND CITY of the South.

Climate Unsurpassed. Abundance of Pure Water. Drainage Excellent.

No Better Point in the Union
For Safe and Profitable Investment.

Situated on the MAIN LINE of the QUEEN & CRESCENT ROUTE, fifty-one miles Southwest of Chattanooga, and ninety-one miles North of Birmingham.

Elevation is from 895 to 1,600 ft. above the sea, and above fever districts.

DeKalb County is entirely free from debt; taxes light. Most liberal encouragement given to industries of every kind.

Iron Furnace and Rolling Mill will be constructed immediately, and other industries of various kinds are under contract.

Correspondence solicited from those who contemplate coming into the South to establish any kind of manufactories.

The different industries will employ at least two thousand skilled workmen, which will secure a population of over ten

thousand, independent of the many industries contemplated.

Iron of the best quality can be manufactured at as low cost per ton as in any other locality in the South.

Coal and iron are being developed rapidly of a superior quality.

Fine timber abundant and wood-working machinery of every kind can be profitably employed at this point.

The Company is prepared to give every reasonable encouragement to manufacturers who will locate at this point.

Correspondence solicited.

CAPITAL \$5,000,000.

OFFICERS.

President,	- - - -	COL. J. W. SPAULDING
First Vice-President,	-	HON. D. H. GOODELL
Second Vice-President,	-	HON. HENRY B. PEIRCE
Secretary,	- - - -	C. L. T. STEDMAN
Treasurer,	- - - -	F. H. TOBEY
Manager,	- - - -	C. O. GODFREY

BOARD OF DIRECTORS.

HON. D. H. GOODELL, of Goodell Mfg. Co., Antrim, N. H.
 HON. HENRY B. PEIRCE, Secretary of State of Mass.
 GEN'L SELDEN CONNOR, Ex. Gov. of Maine, Pres. Northern Banking Co., Portland, Maine.
 COL. J. W. SPAULDING, Ft. Payne, formerly of Portland, Me.
 HON. F. G. JILLSON, Providence, R. I.
 HORATIO ADAMS, Boston, Massachusetts.
 W. J. CAMERON, Pres. First Nat'l Bank, Birmingham, Ala.
 COL. JOHN B. BODDIE, Birmingham, Ala.
 W. P. RICE, Pres. Union Investment Company of Kansas City, resides Fort Payne, Ala.

FORT PAYNE COAL & IRON COMPANY, Fort Payne, Ala.

200,000,000 TONS OF BROWN IRON ORE

IN SIGHT AT

BLUFFTON,

HIGH, HEALTHY AND HONEST.

GOOD PEOPLE AND GOOD WATER.

Cherokee County, Ala.

It is impossible to describe by words the enormous quantity of iron ore that is in sight on the land of this company. Said a prominent railroad man of the South: "I could not believe your statement as to the quantity, (200,000,000 tons in sight), but now that I have seen your ore deposits, I wonder how you put so low an estimate on them."

Prof. Robinson, of Bowdoin College, Brunswick, Maine, says: "I found at Bluffton iron ore in abundance, partly in solid cliff masses containing hundreds of thousands of tons, and partly in the form of gravel and small boulders lying in great banks similar in appearance to the gravel banks of New England. Whether there was as much of the gravel as of the bluff ore I could hardly judge, but it was very clear that the quantities of both were simply enormous."

G. S. Patterson, mining engineer, of Anniston, Ala., reports: "The amount of ore in sight was certainly beyond my expectation, though I was prepared to find a large deposit. The Bluff, as it is called, is a solid mass of ore on the side of a mountain, easily approachable, and can be mined cheaper than at any point in Alabama or Georgia, with which I am familiar."

Mr. Wm. H. Edmonds, of the Manufacturers' Record, says: "As to

the quantity of ore here, I don't suppose that all the furnaces in Alabama could use it up in a lifetime."—See Manufacturers' Record May 18, 1889, article entitled "BILL ARP AND BLUFFTON."

Ore can be delivered at furnaces built here at a cost not exceeding 50 cents per ton.

With high grade ores, analyzing over 50 per cent. metallic iron, delivered at the furnace at the above-named price, is there any possibility of such a place as Bluffton not being able to produce iron at figures which will yield a profit despite the dullest of dull times?

Prof. J. H. Pratt, of Birmingham, Ala., reports on samples selected from our property by Mr. Edmonds and Mr. G. S. Patterson as follows:

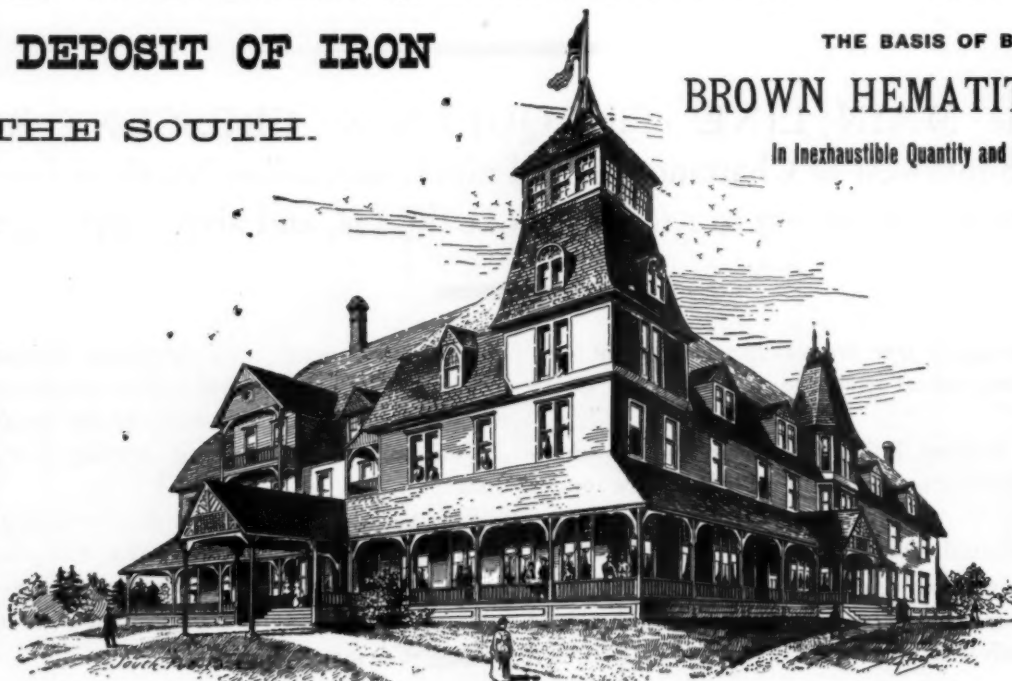
The sample of brown iron ore, marked "Bluff Ore," contains—	The sample marked "Gravel Ore" contains—
Metallic iron, - - 52.37 per cent.	Metallic iron, - - 53.23 per cent.
Phosphorus, - - - 0.782 "	Phosphorus, - - - 0.931 "
Silica, - - - - 14.60 "	Silica, - - - - 6.25 "
Water combined, - 8.10 "	Water combined, - 10.20 "
Moisture at 100° C - 2.50 "	Moisture at 100° C - 1.68 "

LARGEST DEPOSIT OF IRON IN THE SOUTH.

THE BASIS OF BLUFFTON: BROWN HEMATITE IRON ORE

In inexhaustible quantity and excellent quality.

Ore can be delivered at furnaces built here at a cost not exceeding 50 cents per ton.



THE SIGNAL—NOW OPEN AT BLUFFTON.

Located on the Selma Division of the East Tennessee, Virginia & Georgia Railway, midway between Rome and Anniston, and only two miles and three-fourths from the East & West Railroad, of Alabama.

A Dividend-Paying Stock Below Par. 8,000 Shares of Stock at \$14 Per Share—Par Value \$25.

PRICE OF STOCK:

The directors of the Bluffton Land, Ore & Furnace Co. have decided to offer to investors 8,000 shares (\$112,000) of its treasury stock for the purpose of building a 100 TON DAILY CAPACITY COKE IRON FURNACE at Bluffton, and for such other improvements and purchase of other unimproved real estate as may be considered by the directors for the best interests of the stockholders. This stock is now paying six per cent. from ore shipments, and for the past three weeks we have netted over \$20,000 from the sale of our city property—a sale which is larger by 20 per cent. than our estimate.

Only 8,000 shares will be sold at this price, \$14.00. As soon as this block is sold, which will probably be consummated inside of thirty days, the price will be advanced to \$20.00 per share. The balance left in the Treasury after this sale will probably not be offered less than par, if at all. Judging from present indications, it will not be necessary to sell more than the present block, as receipts from ore shipments and sales of real

estate will be ample to complete the furnace and make all improvements now contemplated.

Such a safe investment has never been offered—a dividend paying stock for less than par. Absolutely safe—cannot be assessed. Fully paid up in the organization. Work will be commenced on the furnace as soon as \$30,000 is subscribed on this sale. Persons desiring to purchase larger blocks than their present means will permit, can make a payment of one-half of the amount desired, the balance to be paid in thirty days. Blanks for subscription will be furnished from this office direct.

Orders will be filled in rotation for 1, 5, 10, 50, 100 or 1,000 shares till the entire block is sold. Positively only 8,000 shares will be sold at the above-named price. Subscriptions can be made direct to this office, or to any of the company's agents here or in New York, Chicago, Boston and Bangor, Maine. Remittances can be made by New York draft, express money order, or by currency by registered letter. We can furnish the highest testimonials in regard to this property from business men and experts who have visited it from all parts of the Union.

SEND FOR PROSPECTUS. ADDRESS

Bluffton Land, Ore & Furnace Company, Bluffton, Ala.

CONSTRUCTION DEPARTMENT

WE PUBLISH, every week, a list of every new factory, of whatever kind, projected anywhere in the South; every railroad undertaken, and every mining company organized. This information is always fresh, and, by enabling manufacturers to correspond with the projectors of such enterprises before their supplies of machinery have been purchased, is of great value. Manufacturers will find it to their interest to read this department carefully each week.

*Means machinery is wanted, particulars of which will be found in "Machinery Wanted" columns.

†In correspondence relating to matters reported in this paper, it will be a favor if it is stated that the information was gained from the MANUFACTURERS' RECORD.

ALABAMA.

Anniston—Henry McCarty has started the manufacture of furniture.

Anniston—Cider and Vinegar Factory.—Mr. Grumple, of Paducah, Ky., contemplates starting a cider and vinegar factory.

Anniston—Saw Mill.—The Anniston Tie Co., reported last week as chartered, will build saw mill. Capital stock is \$10,000.*

Anniston—Water Works.—Campbell & McDonald have the contract to build a reservoir for the water works previously reported as to be built by T. G. Bush, of Mobile.

Ashville—Brick-yard.—J. Crory, of Cave Spring, Ga., contemplates starting a brick-yard.

Ashville—Saw Mill.—D. E. Cason will not build a saw mill as stated last week.

Attalla—Gold Mine.—The gold mine recently discovered on the property of H. J. Lee will be developed.

Bessemer—Steel Plant.—The Henderson Steel & Manufacturing Co., of Birmingham, have decided to locate their steel plant at Bessemer, previously mentioned.

Birmingham—Iron Furnace.—George O. Vanderbilt, of Jersey City, N. J., has organized a company to build an iron furnace at East Birmingham of probably 100 tons capacity. A site has been selected. Will develop iron mines.

Birmingham—Dummy Line.—The Birmingham, Bessemer & Powderly Railroad Co. have let contract for the construction of their line previously reported to J. H. Parsons and J. M. Lovelace, who will start work at once.

Birmingham—Publishing.—W. E. Russell will publish the Financial Record at Birmingham and not at Bessemer as stated last week.

Birmingham—Electric-light Plant.—The Merchants' Electric Light & Power Co. will meet July 22 to consider the increasing of their capital stock to \$35,000.

Cordova—Railroad.—The Cordova Coal Co. will build a railroad from Cordova to their mines. Contract will be let shortly.

Cross Plains—Railroad.—The East & West Railroad Co. will issue \$650,000 of bonds to change their road to standard gauge and make other improvements previously reported.

Fort Payne—Axe and Scythe Factory.—The Hubbard & Blake Manufacturing Co. have decided to move their axe and scythe factory lately mentioned from Oakland, Maine, to Fort Payne.

Fort Payne—Asphalt Mine.—It is proposed to organize a company to develop asphalt mines.

Eufaula—Furniture Factory.—T. F. Johnson, of Birmingham, has been prospecting with a view to building a furniture factory.

Florence—Water Works.—John C. Martin, of Xenia, Ohio, is endeavoring to secure contract for the erection of water works.

Gadsden—Terra-cotta Works.—A site has been selected for the terra-cotta works lately mentioned. A three-story building 80x200 feet, and one 40x150 feet, will be erected. Eight large kilns will be put in. The Gadsden Land & Improvement Co. can give particulars.

Girard—Knitting Factory.—A stock company is being organized to build a knitting factory. It is intended to erect a two-story brick building, 135x44 feet.

Girard—Carriage Factory.—W. A. Martin will build a two-story brick factory, 60x45 feet, for manufacturing carriages and wagons, and has started work on foundation.

Girard—Water Works.—Efforts are being made to have the Columbus (Ga.) Water Works extended to Girard.

Greenville—Street Railway.—J. T. Steiner and J. F. Stallings have organized the stock company to build the street railway lately mentioned. Length will be ½ mile.

Horse Creek—Coal Mines.—The Horse Creek Coal, Coke & Mining Co., of New Orleans, La., are preparing to increase their output. Walter Moore is manager.

Huntsville—Cotton Mill.—A Pennsylvania firm offers to furnish the machinery for an 8,000 spindle cotton mill and take payment in stock. The secretary of the board of trade can give particulars if anything is done.

Irondale—Grist Mill.—W. B. Ector will erect a grist mill.*

Jackson—Saw and Planing Mill.—W. A. Willingham, of Chattanooga, Tenn., will erect a large saw and planing mill.

Mobile—Railroad.—The survey for the Mobile, Jackson & Kansas City Railroad, previously mentioned, has been completed.

Montgomery—Oil Mill and Bagging Factory.—The State Farmers' Alliance have contracted to erect their exchange in Montgomery, and will erect the cotton-seed oil mill and bagging factory, previously mentioned, also at Montgomery.

Opelika—Knitting Mill.—The name of the stock company previously reported as organized to build a knitting mill is the Opelika Knitting Co. W. B. Shepard is president, and B. F. Coleman, secretary. The capital stock is \$10,000.

Sheffield—Paint Works.—The Sheffield Mineral Paint Co. have let contract for the rebuilding of their paint works to W. J. Casey. These works will not be moved to Decatur.

Troy—Cigar Factory.—William McCook, of Key West, Fla., intends starting a cigar factory.

ARKANSAS.

Austin—Tannery.—The Lonoke Tannery, reported last week as starting a tannery, have a capital stock of \$5,000 which will be increased. They contemplate adding the manufacture of shoes, harness saddlery, &c.

Bear—Stamp Mill, &c.—The American Mining Co. have leased their Sand Carbonate mine in Saline county to a company who will erect a stamp mill and develop.

Berryville—Flour Mill.—J. N. Freeman & Co. will add roller machinery to their flour mill. This is same as flour mill referred to last week.

Corning—Shingle Mill.—G. R. Van Ettin, of Little Rock, will erect a shingle mill near Corning. Has purchased cypress timber.

Dardanelle—Hedge Fence.—The Western Hedge Fence Co. has been incorporated with W. H. Gee, president; G. L. Kimball, vice-president, and B. H. Merriott, secretary, to plant and grow hedge fences. The capital stock is \$60,000.

Hope—Electric-light Plant.—An electric light plant will be erected.

Little Rock—Turnpike.—W. F. Hill will receive bids until July 10 for constructing a turnpike.

Mammoth Spring—Brick-yard.—E. A. Face will probably start a brick-yard.

Mammoth Spring—Electric-light Plant.—The Mammoth Spring Water, Light and Motor Co., previously reported as to build water works, electric-light plant and electric street railroad, will erect the electric plant at once and have bought machinery.

Morrilton—Grist Mill, &c.—The Little Rock Oil Co., of Little Rock, have purchased the grist mill and gin of Captain Wright.

Newton County—Zinc Mine.—W. M. Bennett, of Denison, Texas, is testing his zinc mine with a view to developing.

Powhatan—Shingle Mill.—Darter Bros. have erected a shingle mill.

Portia—Electric Lights.—Peabody & Wells are putting electric-light machinery in their lumber mill.

Sulphur Rock—Street Railway.—The Sulphur Rock Street Railway Co. has been organized by J. W. S. Bracken, W. T. Nesbit and others. The capital stock is \$3,000.

Silver City—Mining.—The C. C. Gold & Silver Mining Co. have resumed operations.

Texarkana—Furniture Factory, &c.—The name of the \$25,000 stock company previously reported as being organized to convert the Star Planing Mill into a furniture factory, is the Southern Furniture & Manufacturing Co. J. Deutschman, J. T. Rosborough, J. L. Chatfield and others are the incorporators. They will also manufacture agricultural implements.

FLORIDA.

Altosna—Medicine Factory.—J. H. Bracey has started the manufacture of his patent medicine.

Apopka—Saw Mill.—The Pierce & Torrey Investment Co., of Orlando, have moved their saw mill from Piedmont to East Apopka and added a new boiler.

Astor—Bridge.—The Florida Southern Railroad Co. (office, Palatka) will build a bridge across the St. Johns river.

Bellevue—Irrigation.—Dr. Harvey Knight will erect a tank to hold 80,000 gallons of water and a pump with a capacity of 1,000 gallons per hour for irrigating purposes.*

Citra—Irrigation.—Messrs. Borlands, Kells, Bishop and James A. Harris will each erect plants for irrigating their orange groves.

De Land—Fertilizer Factory.—W. W. Pearce is erecting a fertilizer factory.

De Land—Irrigation.—C. F. A. Bielby has erected an 800-barrel water tank and pipe for irrigating purposes.

Homosassa—Shell Mill.—A. Greenleaf has erected a mill for the crushing of oyster shells to be used as a fertilizer.

Hypoloxo—Jelly Factory.—Barton & Dimick are building a jelly factory.

Jacksonville—Brick-yard.—S. L. Dennett will operate a brick-yard at Six Mile creek.

Key West—Cigar Factory.—C. J. Huelstrunkamp has started a cigar factory.

Madison—Cotton Factory, &c.—The capital stock of the Florida Manufacturing Co., reported in last issue as incorporated in New

York to manufacture cotton, is \$150,000. They have also the privilege of manufacturing cotton-seed oil, fertilisers and other cotton products.

Middleburg—Railroad.—The Midland, Highland & Lake Butler Railroad Co., who intend building a railroad from Middleburg to Lake Butler, 20 miles, have let contract for 11 miles of grading, it is said, to Pickett & Clark, of Jacksonville.

Oakland—Railroad.—The Orange Belt Railway Co. will change their gauge from narrow to standard. They operate about 151 miles of road.

Palatka—Wharf.—Von Eberstein, Cowper & Co. have received contract to build a wharf, 800x90 feet, for the Georgia Southern & Florida Railroad Co.

Quincy—Cigar Factory.—Angus Nicholson will start a cigar factory.

Sanford—Sewerage System.—A sewerage system will probably be constructed. The mayor can give information.

Starke—Gin Factory.—T. W. Fewkes and Dr. Gaskin will manufacture gin machinery.

Starke—Railroad.—It is proposed to build a railroad to connect with the Southern Georgia & Florida Railroad (office, Macon, Ga.), 6 miles from Starke.

Tallahassee—Street Railway.—R. L. Bennett, of Philadelphia, Pa., G. W. Saxon and F. F. Myers, previously reported as to build a street railway, have been granted exclusive right of way over all streets of the city for ten years.

GEORGIA.

Acworth—Gold Mining.—Carson Mudge, of New Orleans, La., previously reported as to develop gold lands, will erect a 10-stamp mill and other machinery.

Americus—Machine Shop.—W. H. Sawyer, of Fort Valley, will establish a machine shop.

Americus.—The Americus Poultry & Dairy Co. has been organized with H. C. Bagley, president, and C. R. Whitley, secretary.

Americus—Fertilizer Factory.—The Americus Guano Works will be improved and increased in capacity to 50 tons daily.

Atlanta—Railroad.—A bill will be introduced at the next session of the legislature to incorporate the Collins Park Railroad Co.

Atlanta—Publishing.—Rev. E. R. Carwell and Rev. Redden Andrews will probably commence the publication of a Baptist paper.

Augusta—Electric Railway.—It is rumored that the Augusta Street Railroad will be operated by electricity.

Augusta—Dummy Line.—A company will be chartered to build a dummy line to the Sand Hills, Monte Sano and other suburban villages.

Brunswick—Cotton Factory.—The report referred to last week that parties have purchased a site to build a cotton factory is not confirmed.

Carrollton—Brick-yard.—The Carrollton Brick Co., reported last week as organized and as purchasing machinery for brick-yard, have a capital stock of \$12,000.

Cartersville—Bottling Works.—Richard L. Jones has added bottling works to his ice factory.

Cartersville—Brick-yard.—Northern parties contemplate establishing a large brick-yard.

Cartersville—Machine Shop, &c.—The East & West Railroad Co. (office, Cross Plains, Ala.) have secured a site for their machine shops reported in last issue. A roundhouse also will be built. Cost is stated to be \$30,000.

Cedartown—Gin, &c.—J. L. Johnson and J. H. Dodds will erect a cotton gin and other machinery.

Cedartown—Ochre Mines.—C. J. Wood has discovered yellow ochre on his farm, and will probably have same developed.

Columbus—Spoke and Handle Factory.—J. A. & W. A. Roush, of Petersburg, Ind., will build a spoke and handle factory at Columbus or Atlanta.*

Columbus—Street Railroad.—A street railway will be built to Wynnton by Albert Shepherd and others. A stock company will be organized.

Cordele—Cotton Factory.—J. E. D. Shipp has organized a stock company to build a cotton factory. \$65,000 has been subscribed. Capacity factory at first is stated to be 2,500 spindles.

Decatur—Canning Factory, &c.—The Edgewood Farmers' Alliance contemplate starting a canning and evaporating factory.

Forsyth—Cotton Factory.—It is reported that another company with \$100,000 capital stock has been organized to build a cotton factory.

Franklin—Iron Ore.—Iron ore has been discovered on the property of A. G. Hendrick.

Franklin—Railroad.—Application will be made to the legislature to charter the Franklin, Jonesboro & Covington Railroad.

Gainesville—Factory.—Mr. McCombs has lately started the manufacture of washing machines.

Griffin—Dummy Railroad.—A dummy railroad is reported to be built.

La Fayette—Tannery.—H. P. Lumpkin & Co. will start a tannery.

La Fayette—Manganese Mine.—A manganese mine will be opened near La Fayette by Johnigan, Crow & Co., of Chattanooga, Tenn.

La Grange—Electric-light Plant.—The La Grange Mills, previously reported as to put in an incandescent electric-light plant, have let contract to the Thomas-Edison Electric-light Co. for outfit.

Lincolnton—Telephone Line.—A company is being organized to build a telephone line to Washington.

Machen—Oil Mill.—Machinery has been ordered by E. C. Machon for the cotton-seed oil mill previously mentioned as to be built.

Macon—Reservoir.—The Macon Gas Light & Water Co. are reported as contemplating building an additional reservoir.

Macon—Spoke and Hub Factory.—J. A. & W. A. Roush, of Petersburg Ind., have secured a site for their spoke and hub factory, previously reported. The East Tennessee, Virginia & Georgia Railroad will build a side track to the factory.

Macon—Dummy Line, &c.—A \$200,000 stock company will be organized, it is reported, for the purpose of purchasing and improving land near the city and the construction of a dummy line.

Macon—Bottling Works.—The Georgia Bottling Works have been established.

Madison—The Madison Land & Improvement Co. has been lately organized. Ferdinand Phinizy, of Athens, is interested.

Marshallville—Crate Factory.—The establishment of a crate factory is projected.

Monroe—Cotton Mill.—Local parties contemplate building a cotton mill and will subscribe \$50,000. B. S. Walker can give particulars.

Monroe—Oil Mill and Fertilizer Factory.—The name of the company previously mentioned as organized to build a cotton-seed oil mill and as ordering machinery is the Monroe Oil Mills. Will also erect fertilizer factory. Capacity will be 20 tons daily.

Social Circle—Fertilizer Factory.—The capacity of the Walton County Guano Works is being increased. Machinery is ordered.

Tunnel Hill—Iron Mines and Railroad. The Chattanooga Mining & Manufacturing Co., of Chattanooga, Tenn., are opening iron and manganese mines and will build a railroad to connect with the Western & Atlantic Railroad.

Union Point—Iron Mines and Furnace.—It is reported that parties will develop iron mines near Union Point and build an iron furnace.

Union Springs—Railroad.—Track laying on the Union Point & White Plains Railroad, previously mentioned, has been commenced. R. Lappan is secretary of the company.

Washington—Compress.—A cotton compress will be erected. Henry Colly can probably give particulars.

Washington—Street Railway.—A company has been chartered to build a street railway.

Washington—Water Works.—The erection of water works is projected. The mayor can give information.

Waynesboro—Oil Mill and Fertilizer Factory.—The Waynesboro Cotton-seed Oil & Fertilizer Co. are building a seedhouse 200x45 feet, and a tank-house 200x20 feet, and putting in 50-ton track scales. Improvements will cost from \$5,000 to \$8,000.

KENTUCKY.

Adairville—Flour Mill.—J. C. Carroll & Co. will rebuild their flour mill lately mentioned as burned. The loss was about \$20,000.

Brandenburg—Salt Works.—The Pioneer Natural Gas Co. have struck a salt well of sufficient flow to make about 40 barrels of salt daily, and they will probably erect works.

Conway—Saw Mill, &c.—Hart Bros. will rebuild their saw mill reported last week as damaged by a boiler explosion. They had just added shingle and other machinery to mill.*

Covington—Fan Factory.—William Gildehaus, August Appel, Herman Freckman and George Bruggen have incorporated the Automatic Fan Co., capital stock \$100,000, to manufacture automatic fans.

Danville—Machine Shop.—The rumor referred to last week that the Cincinnati, New Orleans & Texas Railroad Co. will move machine shops to Danville is not correct.

Danville—Electric-light Plant.—The Danville Gas Co. will probably put in an electric-light plant.

Danville—Water Works.—The board of town trustees have contracted for the survey of the sources of water supply near the city with a view to the building of the water works previously mentioned.

Fairfield—Gas Well.—McKenna Bros. are drilling for natural gas on their property.

Frankfort—Saw Mill.—T. J. Congleton & Bro. will at once rebuild their saw mill, reported in this issue as burned.*

Georgetown—Water Works.—Nichols & Patterson, contractors for the water works previously reported, have commenced work.

Greenup County—Iron Furnace.—The Means & Russell Iron Co., of Ashland, have improved their charcoal iron furnace.

Hardinsburg—Railroad.—W. V. McCracken, president Louisville, St. Louis & Texas Railroad Co. (office, Louisville), offers to build the proposed Louisville, Hardinsburg & Western Railroad, previously mentioned, if right of way is secured for him.

Hodgenville—Saw Mill.—J. H. Chandler & Co., of Louisville, are building a saw mill.

Hodgenville—Saw Mill.—Sutton & Co. have rebuilt their burned saw mill at Ferri's Store.

Irrington—Railroad.—The Louisville, St. Louis & Texas Railroad Co. (office, Louisville) will build a branch from Irrington to Hardinsburg.

Leitchfield—Natural Gas.—T. R. McBeath, G. A. Cabbage, J. E. Stone and others have organized the Leitchfield Natural Gas Co. to develop natural gas lands. Authorized capital stock is \$1,000,000.

Lexington—Telegraph Line.—The Kentucky Union Railroad Co. (office, Louisville) are building a telephone line along their road.

Louisville—Bridges, &c.—In addition to the improvements lately mentioned, the Louisville & Nashville Railroad Co. will spend \$215,000 in reballasting different parts of their tracks and \$350,000 in improving bridges and building new ones of iron. Contracts have been given to the Louisville Bridge & Iron Co., the Detroit Bridge Co., of Detroit, Mich.; the Shiffler Bridge Co., of Pittsburgh, Pa., and the Phoenix Bridge Co., of Phoenixville, Pa.

Louisville—Printing Office.—Efforts are being made to have the Cumberland Presbyterian Publishing House moved to Louisville from Nashville, Tenn.

Louisville—Sewerage System.—The city will spend \$300,000 in extending the sewerage system and have plans and specifications prepared and are ready to let contracts. Mr. Scowden is city engineer.

McKinney—Flour Mill.—K. L. Tanner & Sons are putting a new boiler in their flour mill to increase capacity.

Middlesborough—Tannery.—The proposition for the erection of the Middlesborough Tannery, previously mentioned, has been accepted by the American Association, Limited, of Knoxville, Tenn. It will be a \$500,000 tannery.

Middlesborough—Coal Mines and Coke Ovens.—B. A. Jenkins and associates will open coal mines and build coke ovens.

Middlesborough—Coal Mines and Coke Ovens.—E. A. Malcolm and associates will develop coal lands and manufacture coke.

Middlesborough—J. F. Slusher, J. A. Headley, J. W. Browning and others have incorporated the Middlesborough Land & Improvement Co. to deal in real estate. The authorized capital stock is \$100,000.

Middlesborough—Electrical Railroad.—The organization of the Middlesborough Electric Street Railroad Co. to build an electrical street railroad is proposed. Capital stock will be \$50,000.

Middlesborough—Gas Works.—The Middlesborough Gas Co. will probably be organized with \$75,000 capital stock to build the gas works previously reported. When anything is done the American Association, Limited, of Knoxville, Tenn., can give information.

Middlesborough—Sewerage System.—A sewerage system will probably be built. The Middlesborough Town Co. can give information.

Middlesborough—Ice Factory.—The Middlesborough Ice Manufacturing Co., capital stock \$25,000, will probably be organized to build an ice factory. The American Association, Limited, of Knoxville, Tenn., can give information.

Middlesborough—Machine Shops.—The Louisville & Nashville Railroad Co. (office, Louisville) will build machine shops, probably as soon as the extension of their Cumberland branch to Middlesborough is completed.

Middlesborough—Planing Mill.—A planing mill has been started by Markley & Co.

Middlesborough—Saw and Planing Mills. Several saw and planing mills have been started. The American Association, Limited, of Knoxville, Tenn., can give information.

Middlesborough—Fire-brick Works.—The Cumberland Fire-brick Co., capital stock \$50,000, has been organized to establish fire-brick works.

Middlesborough—Iron Furnaces, Steel Plant, &c.—The Middlesborough Iron & Steel Co., with capital of \$3,000,000, contemplate building the 4 large iron furnaces,

large steel plant, rail mill, rolling mill, finishing works, etc., previously mentioned; also bridge works, pipe foundry, nail mill, wire works, etc. The American Association, Limited, of Knoxville, Tenn., can give information.

Middlesborough—Coal Mines and Coke Ovens.—Tipton & Evans are organizing a company at Pocahontas, Va., to lease and develop coal mines and manufacture coke.

Middlesborough—Iron Ore Lands.—Mr. Rattle, of Cleveland, Ohio, is investigating iron ore lands.

Owensboro—Wagon Factory.—The Owensboro Wagon Co. are building a new paint shop, 60x100 feet.

Owensboro—Pipe Line.—A company will probably be organized to build a pipe line from Cloverport to Owensboro.

Paducah—Machine Shops.—The Paducah, Hickman & Southwestern Railroad Co. will build their machine shops at Paducah if the city votes a \$60,000 subscription to the company's capital stock.

Shelbyville—Water Works.—It is been decided to build the water works previously reported, and bids for constructing same are wanted. Address Lynn T. Gruber.

Winchester—Pipe Factory.—The Winchester Cob Pipe Factory has been enlarged and improved.*

LOUISIANA.

Abbeville—Gin.—The Farmers' Alliance will erect a cotton gin.

Columbia—Land.—An English syndicate has purchased 20,000 acres of land in Caldwell parish.

Delhi.—A railroad is to be built from Delhi to Trippe Ark., and work is reported to be started soon. Hon. H. B. Wells can give information.

Greenwood—Sugar Refinery.—Laurent Lacassagne will soon make a central refinery out of his Greenwood sugar-house.

Franklin—Sugar Mill.—John Calder & Co., previously reported as repairing their sugar refinery, have purchased a sorghum sugar mill in Kansas and are moving it to their Alice C. plantation. They have contracted for a bagasse burner.

Hester—Sugar-house.—McCan & Ross have contracted for sets of Hepworth centrifugals for the sugar-house on their Hester plantation.

Houma—Sugar Factory.—H. C. Miner is putting new boiler in his sugar factory on the Southdown plantation.

Jeannerette—Electric Light Plant.—A. L. Monnot, mentioned last week as improving sugar-house, &c., contemplates putting in an electric plant with capacity of 60 incandescent lights.*

Monroe—Oil Mill.—A cotton-seed oil mill will probably be built.

Monroe—Compress.—Another cotton compress will be built it is reported.

Monroe—Street Railroad.—A street railway will probably be built.

New Orleans—Distillery.—R. M. Ong will put new tanks of 40,000 gallons capacity in his turpentine still.

New Orleans.—The Oakland Land Co., Limited, has been incorporated with John D. Rouse, president; William Grant, vice-president; and J. C. Bauman, secretary, to deal in real estate and conduct a sugar planting and refining business. The capital stock is \$40,000.

New Orleans—Electrical Railway, &c.—W. J. Behan, M. J. Hart, T. Prudhomme, Philip Thompson and others have incorporated the Electric Traction & Manufacturing Co., capital stock \$1,000,000, to operate street railroads, manufacture electrical machinery, &c.

New Orleans—Soap and Candle Factory.—The Commercial Soap & Candle Works are erecting the three-story factory building previously mentioned. It is 40x80 feet.

New Orleans—Chemical Works, &c.—The Standard Guano & Chemical Manufacturing Co. are increasing the capacity of their works and have ordered machinery.

Ramsey—Sugar-house.—M. & T. Bagley will improve the sugar-house on their Ramsay plantation, putting in a bagasse burner, etc.

Shreveport—Oil Mill.—The Shreveport Cotton-Seed Oil Mill will be enlarged.

St. Martinville—Oil Mill.—The St. Martinville Cotton-seed Oil Mills have shut down to be improved and enlarged.

Shreveport—Cotton and Woolen Mill.—A company with a capital of \$125,000, represented by Luther Sexton, offer to move their cotton and woolen mill to Shreveport if given sufficient inducement.

Shreveport—Steam Laundry.—The Shreveport Steam Laundry Co. has been incorporated with J. H. Jordan, Jr., president; and W. S. Penick, Jr., secretary, to establish a steam laundry. The capital stock is \$6,000.

Wallace—Sugar-house.—Bradish Johnson has contracted for the erection of Hepworth centrifugals at the sugar-house on his Carroll plantation.

MARYLAND.

Baltimore—Brewery.—Bernard Cahn, D. K. E. Fisher, F. S. Hamilton and others have incorporated the National Brewing Co. to start a brewery. The capital stock is \$320,000.

Baltimore—Dredging.—New proposals will be received by F. C. Latrobe, mayor, until July 3 for dredging and removing 150,000 cubic yards of material from the harbor.

Baltimore—W. R. Wales, Louis A. Flamm, L. C. Crawford and others have organized the Electric Illuminating Co. for the manufacture of a chemical and vegetable combination for illuminating purposes. The authorized capital stock is \$500,000.

Baltimore—Publishing.—C. H. Van Buren has commenced the publication of the Architect and Builder.

Baltimore—Cable Railroads.—The Baltimore Traction Co., previously reported as incorporated by J. S. Hagerty, James L. McLane, Howard Munnikhuyzen and others, have purchased the Citizens' Street Railroad and the People's Railroad, and propose to change to cable roads. It is stated that the cost will be \$1,500,000.

Baltimore—Pickle Works.—The Old Dominion Pickle Co. will put a 10 horse-power boiler in their pickle works at 416 N. Howard street.

Easton—Fertilizer Factory.—A stock company is being organized to establish a fertilizer factory.

Easton—Railroad.—Godeffroy & How have the contract to build the Baltimore & Eastern Shore Railroad, previously reported, from Eastern shore of Chesapeake bay to Salisbury, and will start active work before July 1. M. S. Cartter & Co., of St. Louis, Mo., have the contract to build the bridges.

Gaithersburg—Mining.—Dr. L. F. McGill and others, of Frederick, contemplate developing 500 acres of mineral lands, probably gold lands, and are having same surveyed.

Frederick—Bridges.—The commissioners of Frederick county have let contracts for the building of bridges over the Monocacy river in place of those destroyed by the flood as follows: The Greenleaf Mills bridge to Dean & Westbrook at \$7,100; the Georgetown turnpike bridge to the King Bridge & Manufacturing Co., of Cleveland, O., at \$10,870; the Miller bridge to the Groton Bridge Co. at \$4,370; the Buckeystown bridge to the Wrought Iron Bridge Co., of Canton, O., at \$7,500; the Liberty turnpike bridge to the Smith Bridge Co. at \$11,200; the Creagerstown bridge to the King Iron Bridge & Manufacturing Co. at \$6,870, and the Schill bridge to the Colum-

bia Bridge Co. at \$9,600. Other contracts are yet to be awarded.

Hoffmanville—Paper Mill.—William H. Hoffman & Sons are repairing their mill lately mentioned as wrecked by a flood. Will put in two new turbine water wheels, paper cutter, pulleys, shafting, &c.

St. Michael's—Water Works.—It is proposed to build a system of water works, water to be secured from artesian wells. H. C. Dodson can give information.

Georgetown, D. C.—Canal.—Becker & Blundon have contracted to repair the Georgetown level of the Chesapeake & Ohio Canal, mentioned last week as to be repaired.

Williamsport—Bridge.—The Cumberland Valley Railroad Co. (office, Chambersburg, Pa.) have let contract for their new bridge over the Potomac river lately mentioned, to the Union Bridge Co., of New York, N. Y.

Washington, D. C.—Repair Shop.—New machinery will be placed in the mail bag repair shops. The Postmaster-general can give information.

Washington, D. C.—Laundry.—A company has been organized to establish a new steam laundry with J. W. Morgan, president, and R. W. Bingham, secretary. The capital stock is \$25,000. A building will be erected later in the year.

MISSISSIPPI.

Greenville—Water Works.—J. A. Jones, who is building water works at Natchez as stated previously, has contracted to construct such works at Greenville.

Greenville—Levee Works.—Proposals will be received by the Board of Mississippi Levee Commissioners, S. W. Ferguson, secretary, until July 9, for the following levee work at the places named: 49,140 cubic yards from Dennis to Sledge's, 30,610 from Sledge's to Concordia, 63,150 from Arnold's to the Kirk and Stokes' line, 42,460 at Stokes' Front, 38,370 from Reserve to Ship-land Gin, 33,550 from Shipland Gin to Fittler's Landing and 175,000 at Hall's Landing (new levee).

Lula—Railroad.—The Louisville, New Orleans & Texas Railroad Co. (office, Memphis, Tenn.) will build a branch road from Lula to a point opposite Helena, Ark. It will be completed this year.

Meridian—Sausage Factory, &c.—S. S. Coleman is building a slaughter-house and sausage factory to cost about \$10,000. C. M. Rubush has the contract.

Meridian—Machine Shops.—Plans have been prepared for the enlargement of the machine shops of the New Orleans & North-eastern Railroad Co. (office, New Orleans, La.).

Myrtle—Canning and Evaporating Factory.—C. A. Robertson will build the canning and evaporating factory lately reported.

Port Gibson—Ice Factory.—The Port Gibson Oil Mills contemplate adding an ice factory to their mills next year.

Vicksburg—Cotton Factory.—A cotton factory is projected.

NORTH CAROLINA.

Asheville—Cotton Factory.—The C. E. Graham Manufacturing Co. have increased their capital stock from \$100,000 to \$150,000.

Asheville—Furniture Factory, &c.—The name of the company previously reported as organized by W. H. Young, of Kenton, O., A. W. Butt, of Springfield, O., and others with a capital stock of \$150,000 to purchase, enlarge and operate the furniture factory of Avery & Erwin and the plant of the Tuckasegee Lumber & Manufacturing Co., is the Asheville Lumber & Manufacturing Co. Mr. Butt is president. They will purchase new machinery.

Burgaw—Gin.—Dr. Murphy will move his cotton gin to Burgaw.

Cedar Falls—Cotton Mill.—The Cedar Falls Manufacturing Co. have increased their

capital stock from \$50,000 to \$75,000 and ordered some new machinery for their cotton mill.

Fayetteville—Railroad.—The Fayetteville & Albemarle Railroad Co., previously mentioned, have opened books of subscription. Z. W. Whitehead is secretary.

Fayetteville—Machine Shop.—Sutton & Hensie are erecting a new building for their machine shop.

Goldboro—Lumber Mill and Dry-kilns. The Goldboro Lumber Co. will put two new 80 horse-power boilers in their lumber mill and build a dry kiln with a daily capacity of 40 M feet.*

Henrietta—Cotton Gin, &c.—The Henrietta Mills will not enlarge their cotton mill as stated last week. They will erect a cotton gin and a warehouse.

High Point—Tobacco Factory.—W. H. Ragan, J. A. Lindsay and others, previously reported as leasing the tobacco factory of Gordon, Pegram & Co., have, with J. H. Jenkins, W. P. Pickett and J. H. Millis incorporated as the J. H. Jenkins & Co. to operate same. The capital stock paid in is \$10,000.

Leaksville—Bridge.—Rockingham county will build a bridge across the Smith river at the Leaksville Cotton Mill. Contract will be awarded about July 15. C. S. Hamlin can give further particulars.

Lexington—Barrel Factory.—L. Haff contemplates starting a barrel factory.*

Marion—Cotton Factory.—Efforts will probably be made to form a stock company to build a cotton factory.

Mt. Pleasant—Factory.—The Mt. Pleasant Manufacturing Co. has been organized to start a factory.

New Berne—Machine Works.—The owners of large machine works in the North contemplate removing South and are investigating the advantages of New Berne. The board of trade can give particulars.

Raleigh—Sewerage System.—J. L. Latta will receive proposals until July 15 for building the sewerage system previously reported. \$75,000 of bonds have been voted for same. J. L. Ludlow is engineer.

Rocky Mount—Oil Mill.—The project of building the cotton-seed oil mill mentioned last week has been abandoned for the present.

Salisbury—Railroad.—The construction of a railroad from Salisbury to Norwood via Albemarle is projected.

Shelby—Wagon Factory, &c.—A. W. Eskridge is increasing his capacity for manufacturing wagons, &c.

Shelby—Cider and Vinegar Factory.—Mr. Hall will start a cider and vinegar factory and erect a fruit evaporator.

Spout Spring—Saw Mill, &c.—A. M. Fairley is building a saw mill near Spout Spring and has purchased machinery. He will build one mile of the tram road mentioned in this issue.

Spout Spring—Tram Road.—The tram road reported last week as being built by W. J. McDiarmid & Bro. will be 3 miles in length, of which 2 miles will be built by them and 1 mile by A. M. Fairley.

Statesville—Flour and Corn Mill.—George F. Shepherd contemplates building a roller mill with a daily capacity of 50 barrels flour and 200 bushels corn.*

Statesville—Water Works.—Water works are projected and information as to cost of works for population of 4,000 are wanted. Address D. A. Miller, mayor.

Wilmington—Coaling Station.—The Cape Fear & Yadkin Valley Railroad Co. (office, Fayetteville) will establish a coaling station.

Wilmington—Bagging Factory.—John F. Divine, J. T. Barron, R. J. Southall and others have incorporated the Caroline Fibre & Bagging Co. for the manufacture of pine

straw bagging. The capital stock is to be \$350,000.

SOUTH CAROLINA.

Bamberg—Artesian Well.—An artesian well will probably be sunk.

Charleston—Electric-light Plant.—The Charleston Electric Light & Power Co. will put in a generator so as to furnish electricity for power.

Columbia—Water Works.—A pipe will be laid to connect the reservoir with the Congaree river. Cost will be \$5,000. The mayor can give information.

Darlington—Oil Mill.—The Darlington Cotton-seed Oil Co., reported last week as being organized, will build the cotton-seed oil mill previously reported as to be built by the Darlington Milling, Ginning, Fertilizer & Warehouse Co. Capital stock is \$20,000. Machinery has been ordered.

Florence—Ice Factory.—C. L. Stickney contemplates building an ice factory of from 15 to 30 tons daily capacity.*

Florence—Furniture Factory.—A furniture factory is projected.

Fort Mill—Cotton Mill.—The Fort Mill Manufacturing Co. have increased their capital stock from \$50,000 to \$75,000. They have just added 1,040 spindles, 1 speeder, 1 spooler and 1 reel.

Greenville—Bridge.—An iron bridge will probably be built across Reedy river. The mayor can give information.

Greenville—Ice Factory.—An ice factory is projected.

Greenville—Crates Factory.—The Piedmont Folding, Fruit, Fowl & Vegetable Crate Co., reported last week as chartered, contemplate starting a factory for the manufacture of their crates.*

Manning—Canning Factory.—Gustave Alexander and others contemplate starting the canning factory reported last week.*

Mars Bluff—Brick-yard.—W. F. Claussen has purchased brick machinery with a daily capacity of 6 M bricks.

Orangeburg—Sash and Door Factory.—The Orangeburg Wood & Building Material Co. has been incorporated by D. W. Ayers, G. H. Cornelison, J. E. Bull and others for the manufacture of sashes, doors and blinds. The capital stock is \$5,000.*

Piedmont—McDonald Bros., of Louisville, Ky., reported in this issue as receiving contract to build the new jail at Greenville, will develop a stone quarry near Piedmont.

Ridgeway—Brick-yard.—B. F. Cassels and others have started the brick-yard reported last week.*

Rock Hill—Oil Mill and Fertilizer Factory.—The Rock Hill Cotton-seed Oil & Fertilizer Co., previously reported, will soon commence work on their cotton-seed oil mill and fertilizer factory.

South Carolina—W. H. Bixby, captain of engineers, Wilmington, N. C., will receive proposals until July 24 for \$80,000 of stone, mattresses, etc., to be used in Winyaw Bay. Particulars furnished on application.

Sumter—Corn Mill.—R. W. Bradham has lately started a corn mill and intends enlarging same.

Union—Brick and Tile Works.—Brick and tile works will be started by James H. Rogers.

Walhalla—Distillery.—The Oconee Vine Growers' & Fruit Distilling Association are building a large distillery.

Walhalla—Timber Lands.—G. Wanner has lately sold 10,150 acres of timber lands to a Michigan party.

TENNESSEE.

Adamsville—Saw Mill.—W. E. Parrish & Co. will move their saw mill to Adamsville.

Chattanooga—Pattern Shops.—The Cahill Iron Works have built new pattern shops.

Chattanooga—Creamery.—Stone Bros. contemplate establishing a creamery.

Chattanooga—Street Railway.—W. B. Mitchell, J. A. Hart, S. R. Read and others have chartered the Chattanooga & North Side Street Railway Co. to build a street railway to Hill City, a suburb of Chattanooga.

Chattanooga—Railroad.—The Chattanooga Union Railroad Co. have contracted with Poe & Frye for an extension from East End to Mountain Junction, 2 3/4 miles.

Chattanooga—Box Factory.—Snodgrass & Field will at once rebuild their box factory reported in this issue as burned. Loss was \$7,000.*

Chattanooga—Planing Mill.—The Willingham Lumber Co. are enlarging their planing mill.

Chattanooga—Iron Furnace, &c.—It is reported that the Chattanooga Mining & Manufacturing Co., previously reported as organized, contemplate building a large iron furnace and a manganese converter at Chattanooga. They are opening mines near Tunnel Hill, Ga.

Dyersburg—Oil Mill, &c.—The Dyersburg Oil & Fertilizer Co. are increasing the capacity of their works. Machinery is reported as ordered.

Johnson City—Railroad.—McDonald, Shea & Co., of Knoxville, contractors for the Charleston, Cincinnati & Chicago Railroad, reported in last issue, will sublet their contract shortly.

Johnson City.—The capital stock of the Carnegie Land Co., previously mentioned as chartered, is \$2,500,000. J. T. Welden is president, J. T. Maher, secretary, and D. S. McIntyre, treasurer. They have privilege of building gas, water and electric plants.

Jonesboro—Flour Mill and Implement Factory.—The Farmers' Alliance will start a flour mill and an agricultural implement factory. They will purchase the property of the Telford Manufacturing Co.

Knoxville—Bridge.—L. P. Erwin will receive proposals until July 6 for the construction of a bridge across Broad river at McClure's.

Knoxville—Bridge.—A bridge will probably be built across the railroad on West Fifth avenue. If anything is done, the mayor can probably give information.

Knoxville—Coal Chutes.—The Tennessee Mining Co. are building large coal chutes.

Knoxville—Railroad.—Love & Keller have contract to build part of the 3 mile extension of the Knoxville, Cumberland Gap & Louisville Railroad, previously reported.

Knoxville—Electrical Railroads.—William Morrow, of Nashville, owning large if not controlling interest in Knoxville street car lines, is figuring on running all lines by electric power.

Knoxville—Furniture Factory.—Baumann Bros. are preparing plans for the furniture factory to be built by the stock company previously reported as organized by W. F. Repass. There will be three two-story buildings, 140x150 feet, 110x50 feet and 34x85 feet, dry-kiln, 64x17 feet, &c. About \$12,000 of machinery will be purchased soon. Two steam elevators will be put in.

Manchester—Flour Mill.—The Coffee County Farmers' Alliance will build a flour mill of not less than 40 barrels daily capacity.

Manchester—Water Works.—J. E. Thompson, previously mentioned as to build water works, has contracted for machinery.

Maryville—Furniture Factory.—A Cincinnati firm has purchased from W. A. Cannon, of Dalton, Ga., a site for a large furniture factory.

Montvale.—The Montvale Springs have been purchased, it is reported, by Eastern capitalists. The property consists of about 5,000 acres.

Mossy Creek—Flour Mill.—Carson, Buhl & Goff are enlarging their flour mill.

Nashville—Electric Railway.—The McGavock & Mt. Vernon Street Railway Co., who adopted electricity as a motive power, as previously mentioned, will extend its use over all of their lines.

Nashville—Electric Railway.—Isaac T. Rhea, T. W. Wrenne, R. W. Turner, J. H. Bruce and P. G. Breen are the parties previously mentioned as applying for a permit to build an electric street railway to South Nashville. They have organized the City Electric Railway Co.

Nashville—Water Works.—The board of public works and affairs will receive proposals for furnishing the pumping engine previously reported until August 1. The capacity is to be 15,000,000 gallons daily.

Nashville—Brick Works.—W. G. Bush & Co. will shortly commence the manufacture of fine pressed brick, and have purchased machinery.

Nashville.—J. E. Warner, James Geddes, D. C. Scales and others have incorporated the Nashville Trout Ponds to develop trout ponds in Cheatham county.

Nashville—Distillery.—Kinney & Co., lately reported as purchasing the Woodward Distillery, in Robertson county, will double its capacity.

Newcomb—Electric-light Plant.—The Standard Coal Co. will probably put in a plant to operate their mining machinery by electricity.

Newbern—Water Works.—Water works will probably be built. The mayor can give information.

Offutt—Stone Quarries.—The East Tennessee, Virginia & Georgia Railroad Co. (office, Knoxville) are opening stone quarries.

Palmyra—Saw Mill.—Mr. Snellbaker, of Erin, will erect a saw mill.

Shellsford—Saw Mill.—Mead & Debard will put in band saw in their mill.

Springfield—Distillery.—It is rumored that Arch Porter and D. W. Porter will enlarge the Garrett whiskey distillery, near Springfield, and put it in operation.

Sophia—Saw Mill.—W. J. Byrd has lately started a saw mill.

Tracy City—Saw Mill.—L. D. Hickerson & Son, of Tullahoma, reported last week as purchasing a saw mill and 2,000 acres of timber and coal lands, contemplate building a band saw mill with daily capacity of 30 M feet.*

Union City—Spoke and Rim Factory.—Beck & Gardner have increased the capacity of their spoke and rim factory and will build a new engine-house.

Virtue—Creamery.—Parties contemplate starting a creamery. W. T. McFee can give information.*

Waters—Lumber Mill.—The Chilhowee Lumber Co. has been organized to develop timber lands. T. P. Cowan is president and superintendent, and James Gillespy, secretary and treasurer.

TEXAS.

Alvarado—Machine Shops.—The Missouri, Kansas & Texas Railroad Co. (office, St. Louis, Mo.) state that they will not build machine shops, as reported last week.

Bastrop—Water Works.—The Bastrop Improvement & Investment Co., reported last week as chartered, contemplate building water works. J. C. Buchanan is president and D. P. Johnson, secretary. Capital stock is \$100,000.

Brenham—Oil Refinery.—It is rumored that the Standard Oil & Compress Co., in addition to building the cotton compress reported lately, will erect a cotton-oil refinery.

Brenham—Bridges.—The commissioners of Washington county will receive bids for building two bridges until August 12. Bidders are to furnish plans and specifications.

Brownwood—Grain Elevator.—N. A. Allman & Bros. are building a grain elevator.

Canadian City—Bridge.—The contract for building the iron bridge across the Canadian river, previously reported, has been awarded to the Berlin Iron Bridge Co., of East Berlin, Conn.

Canadian City—Bridge.—The commissioners' court of Hemphill county have let contract for the construction of an iron bridge 935 feet in length across the Canadian river.

Corsicana—Sewerage System.—The contract to build the sewerage system, previously mentioned, has been awarded to Dallas parties.

Cuero—Water Works.—Water works are to be built and plans are reported as prepared. The mayor can give information.

Dallas—Flour Mill.—The Todd Flour Mills have been sold by the Alliance Milling & Manufacturing Co. to S. H. Cockrell & Co., the original owners. They will commence business July 1.

Dallas—Machine Works.—A company manufacturing electric motors and appliances in Cincinnati, O., are negotiating, it is reported, for a site to move their entire plant, valued at \$150,000, to Dallas.

Del Rio—Bridge.—A stock company is being organized to build an iron bridge across the San Felipe river. The mayor can probably give information.

Denison—Natural Gas.—The Denison Natural Gas Co. has been organized.

Denison—Brick-yard.—J. R. Martin will start a brick-yard and has probably purchased machinery.

Denison—Water Works.—Water works are to be built by the Denison Land & Investment Co.

Denison—Woodenware Factories.—Two Northern companies manufacturing woodenware are investigating with a view to moving to Denison.

Denison—Woolen Mill.—J. & W. Crowe, of Fairfield, Iowa, will probably organize a stock company to establish a woolen mill.

Denison—Cotton Factory.—J. M. Ford, W. P. Rice, of Fort Payne, Ala., M. H. French and others are directors of the Denison Cotton Manufacturing Co., previously reported as organized to build a large cotton mill. Capital stock is \$50,000.*

Denison—Brick-yards.—It is stated that a number of the brick-yards will increase their capacity.

Denison—Viaduct.—The city will probably appropriate \$5,000 to aid in building a viaduct over the tracks of the Missouri, Kansas & Texas Railroad. The mayor can give information.

Denison—Iron Works.—It is reported that parties have purchased the Washington Iron Works at Sherman, and will move them to Denison.

Houston—Oil Mill.—The Merchants & Planters' Oil Co. are receiving machinery for their cotton-seed oil mill previously reported. The International & Great Northern Railroad Co. have built a side track to the mill.

Houston—Barrel Factory.—T. W. House, W. D. Cleveland, Philip Carson and others have chartered the Houston Barrel & Cistern Co., capital stock \$25,000, to manufacture barrels and cisterns.

Houston—Brewery.—A party is prospecting with a view to building a brewery.

Jacksonville—Coal Deposit.—A deposit of bituminous coal has been discovered near Jacksonville. Prof. W. C. Dallens can give information.

Josserands—Lumber Mill.—The Trinity Lumber Co. have completed a new lumber mill.

Jefferson—Iron Furnace.—The Lone Star

Iron & Steel Co. have let the contract to build their charcoal iron furnace, previously reported, to Gordon, Strobel & Laureau, of Philadelphia, Pa. Work will be started at once.

Llano—Water Works.—The Llano Water Supply Co., lately mentioned, will enlarge their works.*

McGregor—Flour Mill.—Johnson & Kirkpatrick, of Lebanon, Texas, will, it is reported, move their flour mill to McGregor.

Meridian—Water Works.—The town will build water works. The mayor can give information.

Navasota—Tobacco Factory.—Gabert & Neuhard will increase the capacity of their cigar factory and commence the manufacture of chewing tobacco.

New Birmingham—Ice Factory.—The ice factory lately reported may be built by W. B. Crawford. Capacity, if built, will probably be 3 or 5 tons daily.*

San Antonio—Sewerage System.—The building of a sewerage system is under contemplation. The mayor can give information if anything is done.

Sherman—Electric Railroad.—The Thomson-Houston Electric Light Co., reported in last issue as to erect an electric-light plant at Denison and furnish power for an electrical railroad to Sherman, have purchased the electric-light plant for \$6,000. They will greatly enlarge the plant.

Sherwood—Canning Factory.—A canning factory is to be started.

Sulphur Springs—Woolen Mill.—Parties are negotiating, it is stated, to build a woolen mill.

Taylor—Compress.—A \$50,000 cotton compress is to be built. The mayor can give information.

Waco.—The Waco Abstract & Investment Co. has been chartered with a capital stock of \$18,000.

Waco.—The city will issue \$150,000 of bonds for public improvements. The mayor can give particulars.

Wolfe City—Cotton and Woolen Mill.—H. W. Bardict, reported last week as contracting to build a \$60,000 cotton factory, is about commencing work on building. Woolen goods will be made also. He represents a New York company.

VIRGINIA.

Alexandria.—The Lanston Automatic Type Machine Co., capital stock \$1,000,000, has been chartered with Benjamin Butterworth, of Cincinnati, O., as president, J. M. Dover, Washington, D. C., vice-president, B. F. Cole, Fredericksburg, secretary, and W. H. Hoeke, Washington, treasurer.

Alexandria—Gold Mining, &c.—The Potomac Mining & Reduction Co. has been chartered with A. B. Meeker, president; Reuben Doolittle, vice-president, and R. Randall, secretary, all of Washington, D. C. The capital stock authorized is \$2,500,000. The company will mine gold at Rockville, Md.

Big Stone Gap—Railroad.—The contract to complete the South Atlantic & Ohio Railroad to Big Stone Gap, about 27 miles, has been awarded to the Mason, Gooch & Hoge Co., of Frankfort, Ky. 38 miles of said road are completed.

Buckingham County.—J. P. Kroll has purchased 100,000 trees and will probably soon cut same.

Charlottesville—Land.—The Virginia Midland (R. & D.) Railroad Co. (office, Alexandria) are reported as negotiating for additional land at their round-house.

Charlottesville—Tannery.—A tannery is reported to be built in the fall. The Charlottesville Industrial & Land Improvement Co. can give particulars.

Charlottesville—Woolen and Knitting Mills.—There are prospects of a woolen mill and a knitting mill being built. The Charlottesville Industrial & Land Improvement Co. can give information.

Chase City—Railroad.—C. G. Parish and J. B. Walker will shortly commence work on their contract of grading a railroad.

Fredericksburg—Water Works.—The water works will be improved. The mayor can give particulars.

Hampton—Street Railroad.—The Hampton & Old Point Railway Co. have appointed T. S. Martin and others a committee to ascertain the cost of building their railroad previously mentioned.

Lawrenceville—Soapstone Quarry.—Judge Hicks contemplates developing the soapstone on his property.

Lynchburg—Railroad.—The Lynchburg & Durham Railroad Co. will let a contract to the Penn Construction Co. for building a branch line up the Banister river to the Banister Mills.

Manchester—Street Railroad, &c.—The Southside Land & Improvement Co. has been incorporated with William C. Seddon, president, and Alexander H. Rutherford, secretary, both of Baltimore, to deal in real estate and build and operate street railroads. They have applied for right of way for the street railway, reported lately, from Richmond to Spring Hill. The capital stock is to be not less than \$100,000 nor more than \$1,000,000.

Newport News—Iron Foundry.—The Chesapeake Dry Dock & Construction Co., who are building a large ship-yard, as previously reported, will probably build a large iron foundry later.

Norfolk—Saw Mill.—Freeman & McNeal have purchased the Hostetter saw mills and will enlarge them.

Port Republic—Flour Mill.—Nicholas & McFall's flour mill has lately been remodeled to the roller system. Capacity daily is 45 barrels.

Radford—Stove Works.—The Radford Stove & Range Co., reported in last issue as organized with Hugh Moore, of Dayton, O., as president, have let contract for their buildings to the American Bridge & Iron Co., of Roanoke. The buildings are to be of brick and iron, and consist of a foundry 200x109 feet and a warehouse 124x49 feet. About 100 men will be employed.

Radford—Machine Works.—E. E. Brown and W. H. Waggoner, of Philadelphia, Pa., are prospecting for a site for machine works.

Reba—Bark Mill.—A company has been organized with J. V. Cobbs as president to do a general merchandise business, and will erect a bark mill.

Reba—Flour, Corn and Saw Mill.—The Peaks of Otter Milling Co., J. E. Hatcher, president, contemplate building a flour, corn and saw mill, to be operated by steam power. Capacity for flour is to be from 50 to 100 barrels daily.*

Richmond—Bridge.—The board of commissioners of the James river free bridge have decided instead of repairing the present bridge, to recommend the building of a new one at a cost of \$50,000. Reuben Sheriffs is engineer.

Roanoke—Railroad.—The North Carolina & Virginia Construction Co. will probably soon commence work on the Roanoke end of the Roanoke & Southern Railroad.

Roanoke.—The Roanoke Construction Co. has been chartered with M. M. Rogers, president; J. F. Christian, vice-president, and J. S. Simmons, secretary, to deal in real estate, operate quarries, brick-yards, etc. The capital stock is to be not less than \$5,000 nor more than \$100,000.

Roanoke—Gas and Water Works.—The parties previously reported as purchasing the Roanoke gas works and the Roanoke

water works have incorporated the Roanoke Gas & Water Co. with F. J. Kimball, of Philadelphia, Pa., president, and H. E. Gerhard, secretary. The capital stock is to be \$500,000. They will probably enlarge works.

Tazewell C. H.—Barytes Mill.—Parties mining barytes 2 miles from Tazewell C. H. will erect a mill for grinding it.

West Point—Telephone Line.—The West Point Telephone Co. have let contract for the construction of their line to Walkerton via Lester Manor, 30 miles, to E. H. Richardson and associates.

Wheatland—Creamery.—Mr. Wright will enlarge his creamery.

WEST VIRGINIA.

Charleston—Printing.—The Kanawha Publishing Co. has been incorporated by H. C. McWhorter, J. S. Atkinson, S. C. Burdett and others to publish a daily and weekly newspaper and conduct a general printing, publishing and binding business. The authorized capital stock is \$50,000.

Charleston—Railroad.—New York capitalists will probably build a railroad up Coal river.

Elkhorn—Coal Crusher.—The Houston Coal & Coke Co. have erected a coal crusher.

Grafton—Publishing.—A. J. Wilkinson and L. Davis have commenced the publication of the Grafton Leader.

Parkersburg—Brewery.—John Busch and others, reported last week as organizing a company to build a brewery, have secured a site and are buying machinery. Capital stock will be at least \$75,000.

Parkersburg—Lumber Mill.—Herman Fouse will rebuild his lumber mill reported last week as burned.*

Parkersburg—Bridge.—A. B. Beckwith is receiving proposals for the erection of an iron or steel bridge across the Kanawha river at an estimated cost of \$80,000.

BURNED.

Beans Creek, Tenn.—The distillery of C. Trigg.

Brister, Ark.—The flour mill of W. S. Holland; loss \$5,000.

Camden, S. C.—The turpentine still of David Adkinson in West Wateree.

Frankfort, Ky.—The saw mill of J. T. Congleton; loss \$9,000. He will rebuild at once.

La Fayette, Ga.—The planing mill of N. J. Warthen damaged by a boiler explosion.

Marshallville, Ga.—The school of J. W. Frederick; loss \$7,000. Will be rebuilt.

Norfolk, Va.—The foundry of Wrenn, Whitehurst & Co. damaged by a fire.

Olyphant, Ark.—The saw mill of Leon Lippman; loss \$5,000.

Rock Camp, W. Va.—The grist and saw mill of Lewis Mackin and Allen Long.

Wadesboro, N. C.—The iron foundry of Separks & Laird; loss \$800.

WILL BUILD WATER WORKS—SHELBYVILLE, KY., June 18, 1889.—Shelbyville has decided to put in water works, and invite proposals and correspondence. Address LYNN T. GRUBER.

WILL REBUILD BOX FACTORY—CHATTANOOGA, TENN., June 24, 1889.—Our box factory was burned the 19th. Loss about \$7,000. Will rebuild at once. Expect to buy all new machinery but engine and boiler. Will need Sagment re-saw, planer, &c., Nashville cut-off saws and all that is needed to complete box factory. SNODGRASS & FIELD.

WILL REBUILD SAW MILL—FRANKFORT, KY., June 25, 1889.—Will rebuild at once; will be compelled to buy all new machinery. T. J. CONGLETON & BRO.

Building Notes.

Alexandria, Va.—Herbert Bryant will build 5 dwellings, two-stories, 18x55 feet, to cost about \$12,000.

Atlanta, Ga.—The Phoenix Real Estate Co., A. L. Waldo, secretary, will build a number of dwellings.

Atlanta, Ga.—Hotel.—The East Atlanta Land Co. contemplate the erection of a \$50,000 hotel at Inman Park.

Augusta, Ga.—The Augusta Opera-house Co. have let contract for the enlargement and improvement of their opera-house.

Augusta, Ga.—Mr. Todd is preparing plans for a \$20,000 addition to the Hayne Industrial Institution.

Augusta, Ga.—A. W. Todd has prepared plans for the United States Arsenal Hospital. The appropriation is \$10,000. Bids for construction will be called for shortly.

Austin, Tex.—The Board of Trade have awarded the contract for their new building previously mentioned to R. J. Loving at \$20,700.

Baltimore, Md.—L. Foreman will build 9 two-story houses on Etting street; J. N. Cooper, 3 three-story houses on Pratt street; Chas. F. Mayer, a three-story dwelling at the corner of Monument and Howard streets, and Griffin & Mannion, a three-story brick stable.

Baltimore, Md.—Buckley & Winn and Bryan & John Hanrahan have the contract to build the church at Fort avenue and Towson streets for the Catholics previously reported, and have started work. Cost will be \$25,000. E. F. Baldwin is architect.

Bessemer, Ala.—The Bessemer Land & Improvement Co. have let contract for the erection of their two-story, 30x60 foot, office building, lately mentioned, to James A. Powell. G. M. Torgerson is the architect.

Bessemer, Ala.—C. B. Powell will erect a large two-story brick building on Nineteenth street.

Birmingham, Ala.—Norman Webb has purchased a site for \$4,000 on which to erect a dwelling; J. F. B. Jackson will erect a two-story brick building on Second avenue to cost \$15,000, and Drennen & Co. a three-story brick building 25x140 feet on Third avenue.

Bridgewater, Va.—A \$10,000 addition will be built for the Bridgewater College.

Brunswick, Ga.—A public school building will be erected at a cost of \$12,000. Messrs. Glauber, Nelson and Colson are the building committee.

Buena Vista, Va.—A syndicate will erect a number of dwellings, to cost \$50,000. The Buena Vista Co. can give information.

Burnett, Tex.—F. H. Holloway has let contract for a two-story brick building 92x150 feet.

Camden, Ark.—J. M. Brows, of Little Rock, has been awarded the contract to build the hotel for T. J. Moore and others, previously reported. Thomas Harding, of Little Rock, is the architect.

Camden, Ark.—The First National Bank have purchased a site on which to erect a new bank building.

Camden, S. C.—A large cotton-seed warehouse will be erected.

Cartersville, Ga.—The Cartersville Land Co. will build about 20 cottages.

Charlestown, W. Va.—Commissioners have been appointed by Governor Wilson to select a site for a State reform school to be built.

Charlottesville, Va.—Hotel.—The Charlottesville Industrial & Land Improvement Co. are working up a company to build a large hotel. Capital stock will be about \$50,000.

Chattanooga, Tenn.—A. Delisle is preparing plans for a \$6,000 residence for J. C. Anderson, to be built at his lumber yards.

Clinton, La.—A two-story brick addition 45x150 feet will be built to the Silliman Collegiate Institute.

Coffeysville, Miss.—A \$5,000 school building will be erected.

Columbia, S. C.—George Waring has been awarded the contract to erect the new convent and school building for the Ursuline Institute previously reported. The building will be three stories, 80x84 feet, and cost about \$12,000.

Columbia, S. C.—The Young Men's Christian Association have purchased a site, 55x165 feet, on which to erect their association building, previously mentioned.

Covington, Ky.—The Fairview Lot & Building Association, capital stock \$150,000, has been chartered by W. E. Stewart, E. F. Sprague and others.

Covington, Ky.—The city has accepted plans for the market-house previously reported. The mayor can give information.

Cuero, Tex.—Plans have been prepared for a new edifice for the Episcopal Church. Mr. Hinson is pastor.

Dallas, Texas—Hotel.—Steam heat, passenger and baggage elevators, electric lights, &c., will be put in the \$75,000 hotel reported last week as to be built by the McLeod Hotel Co. It will be six stories.

Dallas, Texas.—J. T. Dargan has let contract for a four-story brick building, 50 feet front.

Danville, Va.—A new market-house will be built. T. J. Talbott can give particulars.

Demopolis, Ala.—An addition will be built to the Marengo Military Academy to cost \$8,000.

Denison, Tex.—Mr. Clooney, of Kansas City, Mo., has been awarded the contract to erect brick buildings on Houston avenue to cost \$24,000.

Denison, Tex.—The Denison Land & Building Co. contemplate the erection of a three-story building, 120 feet front, on Woodard street.

Denison, Tex.—The buildings lately mentioned as to be built by W. B. Munson, W. P. Rice and J. M. Foard will cost about \$40,000.

Denison, Tex.—The cost of the permanent exposition building lately mentioned will be about \$15,000. Dr. J. M. Ford can give particulars.

Denison, Tex.—Messrs. Hovey and Terrill, of Nashville, Tenn., contemplate erecting a \$25,000 brick hospital building.

Denison, Tex.—E. A. & G. M. Garvey, of Memphis, Tenn., will probably build an opera house.

Denison, Texas.—J. J. Fairbanks will build a \$6,000 residence. Mr. Schott is preparing plans.

Denison, Texas—Hotel.—The \$125,000 hotel lately mentioned as to be built by Dr. J. M. Foard and W. P. Rice will be four stories, 125x200 feet, and will have elevators, &c.

Durham, N. C.—The Morehead Banking Co. will erect a storage warehouse.

Edgefield, S. C.—Hotel.—D. A. Tompkins, of Charlotte, N. C., has purchased a site and will build, it is said, a three-story hotel.

Edgefield C. H., S. C.—A new academy building will be erected.

Erin, Tenn.—A building is to be erected for Houston College.

Fall's Church, Va.—Rev. Mr. Nourse will build a dwelling, 28x40 feet, to cost \$8,000.

Florence, Ala.—Messrs. Comly, Reader and others will build a two-story business house, 46x80 feet, on Tennessee street.

Forsyth, Ga.—The Masons will erect a building to be used as a lodge and public library building.

Gainesville, Tex.—Plans and specifications have been prepared for the new depot of the Missouri, Kansas & Texas Railroad (office St. Louis, Mo.) lately mentioned. The contract will be awarded shortly.

Galveston, Tex.—The Board of Regents of the State University are selecting a site for the medical branch previously mentioned. The amount available is \$75,000. Bids are wanted. N. J. Clayton is architect.

Georgia.—The contract for the construction of the quarantine station on Blackbeard Island, reported in last issue, has been awarded to McCarthy & Baldwin, of Washington, D. C., at \$14,646.

Greenville, S. C.—McDonald Bros., of Louisville, Ky., have received contract to build the new jail for Greenville county previously reported at \$14,625.

Harrodsburg, Ky.—The Catholics will build a church.

Helena, Ark.—The American Missionary Association contemplate the erection at once of a college for the colored race. H. B. Robinson can probably give particulars.

Helena, Ark.—E. S. Ready, H. S. Horner, F. M. Owen and others have organized the Citizens' Building & Loan Association. The authorized capital stock is \$275,000.

Hope, Ark.—A stock company with a capital of \$25,000 has been chartered by Charles McKee and others to erect a college for females. The contract has been awarded to E. L. Bell.

Hot Springs, Ark.—Dr. A. U. Williams will build a two-story brick residence 52x72 feet to cost \$10,000. P. P. Van Patten is the architect.

Hot Springs, Ark.—Hotel.—E. Hogaboom has the contract to build the \$200,000 hotel for the Park Hotel Co., reported lately. Will put in elevators, steam laundry, steam heat, electric lights, &c.

Hubbard City, Tex.—W. W. Laemaur, of Waco, is preparing plans for the \$10,000 school-house previously reported. Bids will be called for shortly.

Jacksonville, Fla.—A. Delisle, of Chattanooga, Tenn., has prepared plans for the church for St. Paul's Church lately mentioned. It will be two stories, 60x80 feet, and cost about \$35,000. Rev. J. B. Anderson can give further particulars.

Jasper, Ala.—A branch of the Southern Building & Loan Association has been organized.

Junction City, Ky.—A branch of the Southern Building & Loan Association has been organized with A. Tribble, president, and W. C. Surber, secretary.

Jupiter, Fla.—Hotel.—A company of capitalists will build a three-story hotel with a frontage of 296 feet to contain 158 rooms.

Knoxville, Tenn.—H. L. Bradley will probably erect a five-story building at the corner of Gay and Union streets.

Knoxville, Tenn.—The South Knoxville Baptist Church will shortly let contract for a new edifice. W. B. Ford can give particulars.

Knoxville, Tenn.—Bids for erecting the school at North Knoxville, previously mentioned, will be received until July 3. It will be 75x83 feet, with 8 rooms, and will cost about \$12,000.

Little Rock, Ark.—Hotel.—The St. Joseph Hotel Co. has been incorporated with A. Scherringer, president, and R. L. Duvall, secretary. The capital stock is to be \$50,000.

Louisville, Ky.—The Commercial Club have commenced work on the foundations for their ten-story office building, previously reported.

Louisville, Ky.—The Ohio Falls Building & Loan Association has been organized with T. L. Jefferson, president, and S. L. Ewing, secretary.

Lynchburg, Va.—John D. Langhorne will erect two large buildings on Main street.

Madison, Ga.—Hotel.—It is reported that the Madison Land & Improvement Co. will erect a large hotel.

Marshallville, Ga.—J. W. Frederick will rebuild his school, reported in this issue as burned. Loss was \$7,000.

Memphis, Tenn.—Mr. Fellos, of New York, will erect three store buildings on Adams street. Will have iron fronts.

Memphis, Tenn.—The Cossitt Library trustees have decided to spend \$75,000 in erecting their library building previously mentioned, and beautifying the grounds.

Memphis, Tenn.—The Memphis Theatre will be remodeled at a cost of about \$15,000.

Meridian, Miss.—The board of trustees of the East Mississippi Female College have purchased a site on which to erect additional buildings.

Middlesborough, Ky.—Hotel.—The Watts Hotel Co., capital stock \$75,000, has been organized to build a hotel.

Middlesborough, Ky.—Hotel.—The Lancaster parties lately reported as to build a hotel, have organized the Lancaster Hotel Co., capital stock \$75,000.

Middlesborough, Ky.—The Middlesborough Building & Investment Co., capital stock \$100,000, have lately commenced business.

Midland City, Ala.—Hotel.—Plans are being prepared, it is reported, for a \$50,000 hotel.

Monroe, La.—The Knights of Pythias contemplate erecting a three-story brick building for hotel and hall purposes, to cost about \$20,000.

Nashville, Tenn.—The Tennessee Building & Savings Association has been incorporated by P. P. Pickard, R. L. C. White, Allen G. Hall and others.

Navasota, Tex.—A new church will be built for the First Baptist Church. Rev. A. E. Baten is pastor.

Owensboro, Ky.—Hotel.—A company with \$50,000 capital has purchased the Tar Springs property for \$15,000, and will build a hotel and a number of cottages. S. M. Deane can give information.

Parkersburg, W. Va.—Hotel.—Peyton & Parrish, of Charleston, will probably build a hotel. They are negotiating for a site.

Richmond, Ky.—The Central University will erect an additional building, two stories with gymnasium on second floor.

Salem, N. C.—F. H. Fries has let contract for the erection of a two-story residence, 72x86 feet, to Fogle Bros.

Savannah, Ga.—D. E. Cooper, of Gainesville, Fla., has contracted to build a \$10,000 wing, 20x80 feet, to the passenger depot of the Savannah, Florida & Western Railway Co., previously mentioned.

Savannah, Ga.—The First Battalion of Georgia Volunteers contemplate building an armory.

Selma, Ala.—A branch of the Southern Building & Loan Association has been organized with J. G. Murray, president, and L. W. Caldwell, secretary. Authorized capital stock is \$5,000,000.

Sheffield, Ala.—A. J. Moses will build a business house on Montgomery avenue.

Sheffield, Ala.—The building previously reported as to be erected by the Knights of Pythias will be three stories, 50x120 feet, of brick and stone. W. S. Hall can give further information.

Sheffield, Ala.—The Board of Education, A. J. Moses, secretary, will receive plans and specifications until July 15th for a public school building, to cost not more than \$20,000 when completed.

Sheffield, Ala.—The Board of Public Works will receive plans and specifications until July 15th for a city hall, to cost not more than \$30,000 when completed.

Sheffield, Ala.—The contract for building the superstructure of the Sheffield Hotel, reported previously, has been awarded to W. J. Casey at about \$30,000, and he will start work at once. A. C. Wheeler is architect.

Sheffield, Ala.—W. L. Chambers will build a fine residence.

Spencer, W. Va.—J. B. Smith will receive proposals until July 5 for the building of the Second Hospital for the insane.

Staunton, Va.—A building and loan association has been organized with M. E. Miller, president, and J. B. Woodward, secretary.

Stephenville, Texas.—The First National Bank have let contract for a two-story bank building.

Stephenville, Tex.—Hotel.—A stock company has been formed to build a new hotel to cost \$20,000. Old one is being razed.

Sutherland, Fla.—The Sutherland Land Improvement Co. will rebuild the Hotel Sutherland mentioned in last issue at a cost of \$30,000.

Takoma Park, D. C.—Admiral E. R. Calhoun will build a two-story dwelling 35x70 feet, to cost \$6,000.

Talladega, Ala.—The Isbell Female College will be enlarged at a cost of \$10,000.

Tallahassee, Fla.—A branch of the American Building & Loan Association has been organized with J. T. Bernard as president, and F. P. Damon, secretary. The authorized capital stock is \$5,000,000.

Tampa, Fla.—A building and loan association has been organized, with W. B. Henderson, president, and T. C. Taliaferro, secretary.

Taylor, Tex.—Womark & Sturges are building a two-story brick building on Main street to cost \$10,000; Falley & Meades, a two-story brick addition to their business house to cost \$8,500; H. B. Eastwood, two \$5,000 brick stores, and Thompson & Tucker a two-story business house to cost \$6,000. J. A. Gans and J. E. Tucker contemplate erecting \$5,000 residences.

Tifton, Ga.—A new church will be built for the Baptists, it is stated.

Tyler, Texas.—The Masens will build a temple to cost \$7,500. It will be two stories, 50x100 feet.

Vicksburg, Miss.—W. J. Basinsky, clerk of the Board of Supervisors, will receive proposals until July 1st for building school-houses at Bovina, Flower Hill and Countrymans.

Vicksburg, Miss.—Hotel.—Sully, Patton & Toledano have prepared plans for the hotel previously reported as to be built by the Vicksburg Hotel Co. It is to be five stories, and will cost about \$70,000. Elevator will be put in.

Wartrace, Tenn.—The Presbyterians will erect a new edifice.

Washington, D. C.—The Greenwood Cemetery Co. will build a mausoleum, six stories, 88x100 feet, of Mexican onyx, fire-proofing and granite, to cost \$200,000. J. G. Meyers is the architect.

Washington, D. C.—N. R. Grimm has prepared plans for the remodeling of a school-house on I street to cost about \$20,000.

Washington, D. C.—A brick and stone church to cost \$83,000 will be built for St. Peter's Catholic Church. Owen Donnelly has the contract.

Washington, D. C.—W. T. Garrison has received contract for the erection of the new schoolhouse on Road street, Georgetown, at \$22,900.

Washington, Ga.—The Wilkes Warehouse Co. are building a large cotton warehouse to hold 20,000 bales.

Washington, D. C.—B. F. Bingham will build two brick dwellings to cost \$12,500; Marcus Baker, a \$7,500 brick dwelling; Mary J. Pitcher, a \$9,000 brick dwelling; W. A. Coulter, 3 brick dwellings to cost \$7,000; D. B. Groff, 7 brick dwellings to cost \$13,000; T. L. Curry, a \$16,000 brick dwelling; Robert Waldron, 8 brick houses to cost \$16,000; Pitney & Bradford, a \$16,000 dwelling; Robert Catlin, a three-story brick residence, to cost \$10,000, at Mt. Pleasant; Mrs. Amelia

Selhausen, 3 dwellings to cost about \$8,000; T. B. Campbell, a \$5,000 dwelling in Le Droit Park; Dr. C. E. Hagner, an \$18,000 dwelling—W. B. Gray is architect; F. B. Robinson, 2 dwellings on G and Nineteenth streets to cost \$20,000—N. R. Grimm is the architect; P. M. Dubant, a \$10,000 dwelling; W. B. Marche, 2 brick dwellings to cost \$5,600; Talbert & McCauley, 4 dwellings to cost \$7,000 and S. C. Scott, 6 dwellings to cost \$6,000; George B. Phelps has prepared plans for a \$5,000 dwelling at Columbia Heights; Charles E. Burden, plans for a \$9,000 dwelling at Washington Heights; N. T. Haller, plans for a four-story dwelling on Tenth street, N. W., to cost \$15,000 and to have steam or hot water heat, and John Fraser, plans for an addition to the residence of Hon. B. F. Tracy to cost \$7,000. A. L. Phillips has the contract for last.

Water Valley, Miss.—A building and loan association has been organized, with M. D. L. Martin as president.

Welaka, Fla.—The town council is receiving bids for the erection of a jail.

Wheeling, W. Va.—A gymnasium building will probably be built for the Wheeling Female College.

Wilmington, N. C.—Hotel.—A party of capitalists intend, it is stated, purchasing Bald Head, at the mouth of the Cape Fear river, and building a hotel and conducting a pleasure resort.

Wytheville, Va.—A chapel to cost \$10,000 will be erected for the Plummer Memorial College.

MACHINERY WANTED.

If you desire to purchase machinery of any kind consult our advertising columns, and if you cannot find just what you wish, send us particulars as to the kind of machinery needed. We will make your wants known free of cost, and in this way secure the attention of machinery manufacturers throughout the country. You will thus get all information desired as to prices, etc.

Bark Mills.—Thomas Massie, Massie's Mills Va., wants to buy one or two bark mills.

Barrel machinery is wanted by O. L. Huff, Lexington, N. C.

Battery, &c.—T. A. Jenkins, Geneva, Ala., wants prices on a battery and appliances for telephone line.

Bobbin and Shuttle Machinery.—H. H. Perry, James City, N. C., wants information as to cost of machinery for manufacturing bobbins and shuttles.

Boilers and Dry-kiln.—The Goldsboro Lumber Co., Goldsboro, N. C., want to buy during July two 80 horse-power return tubular boilers and a dry-kiln with a daily capacity of 40 M feet.

Boiler and Engine.—Hart Bros., Conway, Ky., want a 25 or 30 horse-power boiler and engine. Will purchase second-hand if in good condition.

Boiler and Saw Mill.—Folmar & Sons, Troy, Ala., wants a 40 horse-power return tubular steel boiler and outfit for saw mill with daily capacity of 20 M feet. Carriage is to be 30 feet and saw, 54-inch inserted tooth. Diaston saw is preferred.

Boiler, Engine, Saws, &c.—The Piedmont Folding Fruit, Fowl & Vegetable Crate Co., Greenville, S. C., want prices on boilers, engines, planing machinery, saws, &c.

Boiler.—A 2 horse-power marine boiler to burn either coal, wood or oil for steam launch is wanted by Harry N. Hall, Cartersville, Ga.

Bottling Machinery.—Estimates on machinery for bottling works is wanted by W. B. Crawford, New Birmingham, Texas.

Brick Machine.—B. F. Cassels, of Ridgeway, S. C., will probably want a brick machine soon.

Bridge.—A. B. Beckwith, Parkersburg, W. Va., is receiving proposals for building an iron bridge across the Kanawha river. Estimated cost is \$80,000. Particulars on application.

Bridges.—H. H. Young, Box 289, Alexandria, Va., will receive plans, specifications and proposals until July 2 for building two bridges over Four Mile run.

Canning and evaporating machinery is wanted by C. A. Robertson, Myrtle, Miss.

Canning Machinery.—G. Alexander, Manning, S. C., will want outfit of machinery for canning factory between now and January 1, 1890.

Cells.—A. R. Smith, Clerk of the Commissioners of Roads and Revenues of Hall county, Gainesville, Ga., will receive proposals until July 22 for eight steel-clad cells and corridor to be erected in the county jail of said county. All plate work to be 3 1/2 inch jail plate and lathed with five-ply steel bars 3 1/4 inches wide and 3/8 inch thick. Each cell to be 6 feet 6 inches wide, 8 feet long and 7 feet high. The floor and ceilings of cells and corridor, and outside and partition walls to be made of jail plate as described above. Fuller particulars can be had on application.

Cotton Machinery.—The Denison Land & Investment Co., Denison, Texas, will shortly purchase boilers, engines, elevators and cotton mill machinery for \$50,000 mill.

Creamery Machinery.—W. T. McFee, Virtue, Tenn., can be addressed regarding machinery to be bought by parties who will start a creamery.

Electric-light Plant.—A. L. Monnot, Jeannerette, La., wants prices on incandescent electric-light plant for sugar refinery with capacity for 60 lights.

Engine and Boiler.—The Carrollton Brick Co., Carrollton, Ga., want a new 50 horse-power engine and boiler.

Engine.—Laurent Lacassagne, Gibson City, La., wants an engine 15 or 16 inches x 4 or 4 1/2 inches.

Engine.—The Pulaski Pipe Factory, Pulaski, Tenn., will want a larger engine in about a month.

Envelopes.—John Wanamaker, Postmaster-General, Washington, D. C., will receive proposals until July 2 for furnishing registered package envelopes of any improved design or device that bidders may submit.

Fertilizer and Gin Machinery.—F. B. Henderson and others, Aiken, S. C., will soon want machinery for fertilizer factory and cotton gin.

Filter Presses.—A. L. Monnot, Jeannerette, La., will probably want two filter presses for sugar refinery.

Flour and Corn Machinery.—George F. Shepherd, Statesville, N. C., wants estimates on machinery for a roller mill with daily capacity of 50 barrels flour and 200 bushels corn.

Flour, Corn and Saw Mill.—J. E. Hatcher, president Peaks of Otter Milling Co., Reba, Va., wants machinery for a flour, corn and saw mill. Capacity for flour is to be from 50 to 100 barrels daily.

Gin Machinery.—W. Webb, Elberton, Ga., wants prices on gin, shafting, pulleys, &c.

Grinding Machinery.—J. G. Webb, Bronwood, Ga., wants machinery for grinding cotton seed and other soft material.

Grist Mill.—W. B. Ector, Irondale, Ala., wants grist mill outfit.

Hinges, Nails, &c.—The Piedmont Folding Fruit, Fowl & Vegetable Crate Co., Greenville, S. C., want prices on strap hinges 4x6 inches, butt hinges 1 1/2 inches, screws and wire nails for the hinges, and wire net.

Ice Machinery.—C. L. Stickney, Florence, S. C., wants machinery for ice factory of 15 or 20 tons capacity daily.

Ice Machinery.—W. R. Martin, Greenville, Ala., wants prices at once on machinery for an ice factory.

Ice Machines.—W. B. Crawford, New Birmingham, Texas, wants estimates on 3 and 5-ton ice machines.

Judge Hicks, Lawrenceville, Va., wants information as to means of quarrying soapstone, and for what purposes it can be used.

Laundry Machinery.—E. Hogaboom, Hot Springs, Ark., will want laundry machinery for \$200,000 hotel.

Lumber Mill Machinery.—Herman Fouse, Parkersburg, W. Va., wants lowest prices on a planer and matcher combined, four-sided molding machine, scroll saw, lathe, belts of different sizes, tubular boiler 14 feet by 18 inches with stack, 35 horse-power engine, self-feeding rip-saw, pulleys and shafting.

Planer.—J. C. Steel, Statesville, N. C., wants a small iron planer 26x5 inches.

Planer and Matcher.—R. P. Crowder, Madisonville, La., want prices on a planer and matcher that will plane 18 to 20 inches and match 10 to 12 inches.

Pump, Pipe, Drain Tile, &c.—Dr. H. Knight, Belleview, Fla., wants to buy a pump with capacity of from 900 to 1,200 gallons per hour, and prices on iron pipe, drain tile, &c.

Pump and Pipe.—W. W. Knowles & Son, Llano, Texas, will buy power pump, iron pipe and fittings to enlarge water works.

Pump.—De Land, Fla., wants to hire a large pump to test an artesian well. Address Silas B. Wright.

Pump.—Proposals will be received until August 1 by the Board of Public Works and Affairs, Nashville, Tenn., for furnishing the pumping engine previously mentioned. Capacity is to be 15,000,000 gallons daily.

Roofing.—Johnson & Harrold, Americus, Ga., wants bids on 250 square standing groove tin roofing best I. C. charcoal tin.

Saw Mill.—Prices on a band saw mill complete are wanted by L. D. Hickerson & Son, Tallahoma, Tenn. Capacity is to be about 30 M feet daily.

Saw Mill.—The Anniston Tie Co., Anniston, Ala., want prices on boiler, engine and saw mill outfit at once.

Saw Mill.—T. J. Congleton & Bro., Frankfort, Ky., will purchase outfit of new machinery to rebuild burned saw mill.

Saws, &c.—James N. Boling, Fordville, Ky., wants scroll saw, resaw and bits for molding and matching machine.

Spoke and handle machinery for factory to be built in the South is wanted by J. A. & W. A. Roush, of Petersburg, Ind.

Spring Machinery.—Lottman Bros., Houston, Texas, want to buy latest improved machinery for manufacturing spiral or cone springs used in spring beds.

Steam-heat, Elevators, &c.—E. Hogaboom, Hot Springs, Ark., will want steam-heat, elevators, electric-light machinery, bath-house outfit, &c., for \$300,000 hotel.

Steam Tugs.—The Secretary of the Navy, Washington, D. C., will receive proposals until August 1 for furnishing four iron or steel tugs, not to exceed \$35,000 in cost. They are to be equipped with fire and wrecking pumps. One of such tugs to be delivered at the Navy-yard, Mare Island, Cal.; one at the Navy-yard, Washington, D. C., and two at the Navy-yard, League Island, Pa.

The Challenge Machine Co., Anniston, Ala., want to make arrangements to sell engines, boilers, saw mills, wood-working machinery, shafting, pulleys, emery wheels, &c., in Southern States, and invite correspondence with manufacturers.

Tools.—S. Sutton, Fayetteville, N. C., wants a few more tools for machine shop.

Wood-working Machinery.—Snodgrass & Field, Chattanooga, Tenn., want all ma-

HETHERINGTON & NASON,

Manufacturers and Dealers in Supplies for

Boiler Makers, Machinists, Railroads, Steam & Gas Fitters

Boiler Plate and Tank Iron, Lap-Welded Pipe and Boiler Tubes, Boiler and Sheet Iron Rivets, Steam Brass Goods and Engine Trimmings, Iron Valves and Fittings, Pipe Workers' and Machinists' Tools, Wood and Iron Pulleys, Belting, Hose and Packing, SEWING PIPE, FIRE BRICK and CLAY.

405 and 407 Elm Street,

Dallas, Texas.

chinery except power to rebuild burned box factory.

Water Wheel.—The Troy Machine Co., Fall River, Mass., want estimates on a turbine water wheel to fit a flume 7 feet 4 inches wide by 5 feet deep.

Water Works.—Proposals for building water works at Shelbyville, Ky., are wanted. Address Lynn T. Gruber.

Water Works.—Information as to cost of water works for town of 4,000 population is wanted by D. A. Miller, Statesville, N. C.

Wood-working Machinery.—The Orangeburg Wood & Material Co., Orangeburg, S. C., will want soon machinery for manufacture of sash, blinds, doors, &c.

C. R. MAKEPEACE & CO.
ARCHITECTS and MILL ENGINEERS
PROVIDENCE, R. I. Plans, Specifications and Estimates furnished for Cotton and Woolen Mills.

LOCKWOOD, GREENE & CO.

MILL
ENGINEERS,
NEWBURYPORT, MASS.

PLANS AND SPECIFICATIONS FURNISHED FOR THE CONSTRUCTION EQUIPMENT AND ORGANIZATION OF COTTON AND WOOLLEN MILLS.

JONES & MACK
Formerly JONES & BUCKER,
MECHANICAL ENGINEERS,
Designers of Standard and special Machinery, Drawing of any description.
BLUE PRINTING.
Write for estimates on what you want.
We never sleep. 5 West 4th St., CINCINNATI, O.

Baltimore Stock Exchange Quotations.

Reported by ALEXANDER BROWN & SONS, Bankers, Baltimore.

BALTIMORE, June 26, 1889.

	BID.	ASKED.
Virginia 6's Consols C.....	42	43
Virginia 3-4-5 10-40's.....	37	38
Virginia 3's, new.....	69	69 1/2
Virginia Consol Coupons, New.....	34	35
Virginia 10-40 Coupons, N. F.....	27	28
N. Carolina 4's.....	99 1/2	99 3/4
N. Carolina 5's.....	119	120
Norfolk Water 7's, C.....	127 1/2	128
Charlotte, Col. & Aug. 6's.....	30	31
Rich. & Dan Gold 6's.....	117	118
Va. & Tenn. 5's.....	120	121
W. Va. & Aug. 6's.....	117	118
Atlanta & Char. 1st 7's.....	123 1/2	124
Atlanta & Char. Income 6's.....	104	105
Col. & Green. 1st 6's.....	105	106 1/2
Col. & Green. 2d 6's.....	86	87
Va. Midland, 1st 6's.....	118	119
Va. Midland, 2d 6's.....	109	110
Va. Midland, 3d 6's.....	98 1/2	99
Char. & C. Aug. 1st 7's.....	117 1/2	118
Char. & C. Aug. 2d 7's.....	121	122
West Va. Central 1st 6's.....	109 1/2	110
Ga. Pacific 1st 6's.....	115	116
Ga. Pacific 2d 6's.....	82 1/2	83
Cape Fear & Y. Valley 6's, A.....	105	106
Cape Fear & Y. Valley 6's, B.....	100 1/2	101

ALEXANDER BROWN & SONS report sterling exchange: 4.87 1/2 for 60 days, and 4.89 for short sight; commercial bills 4.86 @ 4.86 1/2. Francs 5.16 1/2 for bankers' 60 days, and 5.14 1/2 for short sight; commercial 5.18 1/2 @ 5.19 1/2. Reichsmarks bankers' commercial 94 1/2 @ 94 1/2. Guilders bankers' commercial 40 @ 40 1/2.

BANKERS AND BROKERS.

WILSON, COLSTON & CO.
Bankers & Brokers.
216 E. Baltimore Street, Baltimore, Md.

Investment and Miscellaneous Securities a specialty, and large lists handled. Exceptional facilities for dealings in all classes of Southern Bonds. Loans on Collateral Securities arranged. Quotations and information furnished on application, and correspondence invited.

MINERS' LAMPS,
BRASS COLLAR & BREAST
IN ONE PIECE
KEROSENE OR WHALE OIL
SPOUT AND BODY
IN ONE PIECE
NO SEAM TO MELT
HUNT & CONNELL, Limited, SCRANTON, PA.

JOHN L. WILLIAMS & SON,
BANKERS,
—RICHMOND, VA.—

Our MANUAL OF INVESTMENTS, the largest publication of the kind published by any banking house in the United States, may be had upon application by parties interested.

CAR PILE DRIVERS
Extension truss, to drive from one bent to another. 20 feet lateral swing, 9 feet from center. Fitted up with our new style New York Steam Pile Hammer.
VULCAN IRON WORKS, CHICAGO.



The BOOMER & BOSCHERT
KNUCKLE JOINT
PRESS
FOR BALING
Cloth, Paper, Yarn, &c.
Or for any other purpose requiring great pressure.
BOOMER & BOSCHERT PRESS CO.
329 W. Water St. Syracuse, N. Y.

ALEX. BROWN & SONS
ESTABLISHED 1811.
BALTIMORE, MD.

BROWN BROTHERS & CO.
New York, Philadelphia and Boston.

Foreign and Domestic Bankers,
AND MEMBERS OF THE
Baltimore, New York and Philadelphia
Stock Exchanges.

(Private wire between Baltimore, Boston, Philadelphia and New York.)
Interest allowed on deposits of Banks, Bankers, Corporations and individuals. Realized, Municipal and other Loans Negotiated, and advances made on Grain, Cotton, Stocks and Bonds, and other approved collateral.

BUY AND SELL BILLS OF EXCHANGE
on Great Britain and Ireland, France, Germany, Holland, British West Indies and other foreign points.
Issue Commercial and Travelers' Letters of Credit.

IN STERLING, available in any part of the world; IN FRANCS, for use in Martinique and Guadeloupe; and IN DOLLARS, for use in this country, Canada, Mexico, the West Indies and South America.

Make Cable and Telegraphic Transfers of Money.

Drafts Collected in all parts of the World.
BROWN, SHIPLEY & CO., LONDON.
Financial Agents of the United States Government in England.

(Members of Baltimore Stock Exchange.)

THERE is an upward tendency in the iron and steel rail market, and it is authoritatively stated that the Thomas Iron Co. will announce an advance of 50 cents per ton on July 1. President Clarke, of that company, is quoted as saying:

"The iron trade is in a healthy condition and the consumption of iron is enormous. We have shipped more iron in June and July than ever before in any two months in the history of the Thomas Iron Co. We have 10,000 tons less foundry iron on hand now than last year, and on July 1 we will not have a pound. We have now sold nearly all the iron we can produce this year, and I expect to sell the whole produce of the furnaces this year."

The South is to be congratulated upon this improvement in iron, for it means large profits for Southern furnaces.

RANGE AND STOVE FOUNDRY—RADFORD, VA., June 21, 1889.—The Radford Land & Improvement Co. has succeeded in completing a contract with Moore, Harkness & Co., of Cincinnati, O., for the building of a large range and stove foundry. The Roanoke Bridge & Iron Co. has been awarded the contract which provides that the enterprise shall be completed by 1st September. Minimum capital, \$25,000; maximum \$500,000. RADFORD LAND & IMPROVEMENT CO.

Phoenix Incandescent Lamp Co.

CHICAGO, ILL.

The Highest Quality.

The Lowest Price.

Can be used for any
Electric Light
System.

SATISFACTION GUARANTEED.

Series Lamps.

BATTERY & LAMPS.

Write for Circular and Price
List before buying
elsewhere.

ICE FACTORY AT FORT PAYNE—FORT PAYNE, ALA., June 22, 1889.—The Fort Payne Ice & Storage Co. is organized with a capital of \$25,000. Will erect plant immediately. W. R. ANDERSON.

TRAM ROAD AND SAW MILL—SPOUT SPRING, N. C., June 19, 1889.—We are building a tram to run three miles from our mill. Mr. A. M. Fairley, who is putting in a new 40-horse power boiler from Richmond Locomotive & Machine Works, and a No. 2 Lane saw mill, will build one mile of this road. His mill will have all the late improvements, and he will run his product to our planing mills here (capacity 30,000 feet per day). W. JETT. MCDIARMID & BRO.

PROPOSALS.

PROPOSALS FOR ANNUAL SUPPLIES FOR THE NAVY.—June 3, 1889. Sealed proposals, endorsed "Proposals for Naval Supplies," will be received at the Bureau of Provisions and Clothing, Navy Department, Washington, D. C., until 11 o'clock A. M., June 27, 1889, and publicly opened immediately thereafter for the annual supplies required during the fiscal year ending June 30, 1890 at the several Navy Yards and Stations, except at the Navy Yard, Mare Island Cal., proposals for which will be received until 11 o'clock, July 6, 1889, and publicly opened immediately thereafter. The supplies are divided into classes, numbered as follows: 13, building material; 19, dry goods, clothing, &c.; 20, fuel; 22, glass; 23, sheep skins; 33, 34, 35, 36, 37, lumber and timber; 42, pig-iron; 43, naval stores; 50, oils, sperm, lard, &c.; 51, grease; 52, alcohol, linseed oil, McLean's paint; 59, ship-chandlery; 61, stationery and type-writing material; 63, crucibles; 71, provender, harness, foundry facings, &c. Cases are called for at the several Navy Yards and Stations as follows: Portsmouth, N. H.—13, 20, 33, 35, 36, 37, 42, 43, 59, 61, 71; Boston—13, 20, 43, 59, 61, 71; Newport—20, 61; Brooklyn, N. Y.—13, 19, 20, 22, 33, 34, 35, 36, 37, 43, 50, 51, 71; League Island—20, 61, 71; Annapolis—13, 20, 22, 33, 34, 35, 36, 37, 61, 71; Washington—13, 19, 21, 32, 33, 35, 37, 42, 43, 50, 61, 68, 71; Norfolk—13, 20, 22, 33, 34, 35, 36, 37, 61, 71; Mare Island—13, 20, 22, 33, 34, 36, 37, 43, 50, 61, 71. Schedules for any Navy Yard or Station desired, with blank forms of proposal, will be furnished upon application to the Bureau. Information regarding the supplies to be furnished can be obtained upon application to Commandants of the respective Navy Yards and Stations. Schedules for Mare Island Navy Yard will be supplied also by the Commandant. The articles must in all cases conform to the naval standard and pass the usual inspection. The Department reserves the right to reject any bid not deemed advantageous to the Government, and to waive defects not in conflict with the law. JAMES FULTON, Paymaster General, U. S. Navy.

SEALED PROPOSALS will be received by the Sewerage Committee of the Board of Aldermen of the City of Raleigh, N. C., at the Mayor's Office of said city, until 3 o'clock P. M., of Monday, July 15, 1889, for constructing the proposed system of pipe sewers for said city—approximately extent twenty-one (21) miles. Copies of the general plans and specifications, forms of proposals and instructions to contractors and any information relative thereto may be obtained from the Chairman or Engineer of the Sewerage Committee. The Committee reserves the right to reject any or all bids. C. G. LATTA, Chairman of Sewerage Committee. J. L. LUDLOW, C. E., Engineer.

U. S. ENGINEER OFFICE, Wilmington, N. C., June 24, 1889.—Sealed Proposals for \$50,000 of Stone, Mattresses, &c., in place in dike in Winyaw Bay, S. C., are to be received at this office until 10 A. M. on 24th July, 1889. The attention of bidders is specially invited to Acts of Congress, approved 20th February 1835, and 23d February, 1837, volume 21, page 322, and volume 24, page 414 statutes at large. All information furnished by W. H. BIXBY, Capt. of Engineers.

TULIP STREET CHURCH, M. E. CHURCH SOUTH, Nashville, Tennessee, will build a new church costing about \$30,000. It will be two stories, the lower floor to be used for Sunday School purposes. Architects wishing to submit plans, should address Col. JAMES H. YARBROUGH, Chairman of Building Committee, Nashville, Tenn.

FOR SALE.

DARLINGTON LAND IMPROVEMENT CO.

Lots within the incorporate limits of the town of Darlington, and fine farming lands adjacent, for sale. Railroad facilities good. Fine graded school in town. For further particulars apply to J. J. WARD, President and Treasurer of Darlington Land Improvement Co., Darlington, S. C.

Sulphur Mine FOR SALE.

The Louisiana Sulphur Mining Company offers for sale its sulphur property in Calcasieu parish, 80 miles west of New Orleans on the line of the Morgan Railway.

Repeated borings have demonstrated the existence, 412 feet under the surface, of a very large bed of sulphur, 112 feet thick, ranging in purity from 65 to 90 per cent., averaging through the whole depth 77 per cent.

For further particulars apply to
LOUIS BUSH, ESQ., President,
17 Tchoupitoulas Street, New Orleans, La.

Machinery Wanted.

We want to buy latest improved Machine for making Spiral or Cone Springs used for all Spiral Spring Beds. **LOTTMAN BROS., Houston, Tex.**

WANTS.

A COMPETENT MAN is now open for an engagement as Superintendent of Cotton Mill. Has large practical experience. Is strictly temperate, and will guarantee to get as large a production as can be had from the machinery, and at as small cost as any mill. Address "EXPERIENCE," care Manufacturers' Record.

WANTED.—A first class laundry man. Must understand every part of the business thoroughly. Address, A. S. EMERSON, Charleston, S. C.

WANTED.—Foreman in plow factory. Address C. A. CHARLTON, Statesville, N. C.

WANTED.—Foreman for our foundry. Must be a first-class man in every particular, competent to superintend making car wheels and general car castings. Answer with reference. The Elliott Car Co., Gadsden, Ala.

WANTED.—First-Class and Experienced Laundry Man to take charge of and operate steam laundry in Rome, Ga., city of fifteen thousand inhabitants, with no like institution in opposition. For particulars address GEO. H. MAGRUDER, Box No. 349, Rome, Ga.

WANTED.—A competent founder to take charge two (2) blast furnaces. None but experienced men need apply. Address EUREKA CO., Osmoor, Ala.

WISHES TO INVEST.—A practical mechanic and draughtsman, with some means, wishes to invest in some good mechanical business in the South. Has large Southern acquaintance, and can control a good trade. Address MECHANIC, care Manufacturers' Record.

For Sale.

50 OR MORE

BRIDESBURG

4 SHUTTLE, 10 TREDDLE

LOOMS.

now running, and in first-class order, at Arlington Mills, Wilmington, Del. Apply to John Greer, Manager Arlington Mills Mfg. Co., Wilmington, Del.

FOR SALE.

Cotton Seed Oil Mill and Ginnery

in the town of Pittsburg, Camp county, Texas. This is one of the best openings in Texas. Address MARTIN L. MORRIS, Pittsburg, Texas, or VAN WINKLE GIN & MACHINERY CO., Atlanta, Ga.

FOR SALE

Foundry and Machine Shops,

with ample store rooms, in the city of Atlanta, Ga. Fronts Western and Atlantic Railroad, Marietta and Foundry sts. For terms, &c., address VAN WINKLE GIN & MACHINERY CO., Box 482, Atlanta, Ga.

Manufacturing Plant FOR SALE.

STEAM BOILER WORKS, Rolls, Bevel Shears, Splitting Shears, Three Power Punches, Machinists' Lathes, Compressed Air Riveter, Cranes, Complete Assortment of Smaller Tools, Boiler, Engine, Shafting Pulleys, Belting, etc.; building about 400 feet. Also Barbed Wire and Wire Nail Factory about 300 feet. Shafting, Belting, Engine, Five Barbing Machines and Four Nail Machines, with Spools, Tumbler, etc., etc. Also license to manufacture under Washburn & Moen patents. Ground rent nominal, having about 7 1/2 years to run. Railroad switch running full length of lot, 300 feet. Located in the business center of Chattanooga. Sealed bids will be received for this plant to be opened July 1st, 1890. The right is reserved to reject any and all bids. For further particulars, address, **F. A. ESTEP, Receiver,** Chattanooga, Tenn.

FLORENCE, ALABAMA.

Investments in Stocks, Bonds and Real Estate. Correspondence solicited. Information gladly given. Address

DILLARD & WALTON,

Florence, Alabama.

FOR SALE.

Soap, Candle & Oil Works, Plant and Business.

Established 1848.

Warehouse, Houses
and Outfit Complete,
all in good repair.

A Fine Opportunity
to secure a splendid
paying and well es-
tablished business in
one of the best located
cities in the South.

Address, for full par-
ticulars,

F. FABELS' SONS,

P. O. BOX 104,

LOUISVILLE, KY.

FOR SALE OR LEASE.

The Plant, Entire Stock and Good
Will of the the

H. B. GRUBBS CRACKER CO

This company has established a fine reputation for their manufacturing, and control a large trade through the South. Plant consists of two twelve pan reel ovens, and all other machinery necessary in conducting a large **BAKERY BUSINESS.** The CANDY DEPARTMENT is well equipped—Steam Jacket Kettles, Mixing Kettles, Revolving Pans, and all other machinery, tools and fixtures, required to complete a **First-Class Cracker and Candy Manufactory.** Address

H. B. GRUBBS CRACKER CO.

NASHVILLE, TENN.

Apply to **ALFRED W. LADD**, 44 Broadway, New York.

Eastern Lumber Markets.

[Special correspondence MANUFACTURERS' RECORD.]

NEW YORK, June 26, 1889.

The lumber market in this city is in a good, healthy condition. Demand is moderate for both hard and softwoods. Considerable trouble has been occasioned by manufacturers sending their lumber in here and seeming to have forgotten the inspection rules. Of course considerable disappointment is occasioned on this account, which a little foresight would make impossible. Ash has been the principal cause of complaint recently. The arrivals of this wood are large both by car and water. What is wanted is good dry lumber from 14 to 16 feet long. The majority of the stock received at this port is too narrow and too short and not properly dried. When this is the case manufacturers need not expect to get anything like the rates quoted in this journal, as they apply only to woods which will pass the inspection board.

Ash is selling at \$37.50 to \$39 for good 1-inch stock; clear strips \$27; 1 1/4 to 2-inch white ash \$38 to \$39; 2 1/4 to 4 inches \$40 to \$41; black ash of fair quality commands \$26 to \$30; culls \$10 to \$12; culls are in little request.

Exporters speak well of the demand for walnut on the other side, which still keeps up. Local demand is very poor for first quality. Rejects will sell at \$52 to \$54. Furniture dealers buy the majority of rejects, as they can make them answer their purpose as well as first-class wood in many pieces of furniture. One inch culls are occasionally inquired for and quotations named at \$35; thicker \$37 to 38. Counter tops are not in demand. If there is any demand for first-class black walnut it is for 3/4 inch stuff, which is quoted at \$78 to \$83. However, the demand for walnut from this dimension up is principally confined to lumbermen on the other side the water. Stocks are sufficient for all demands, but not superabundant, which may be said with regard to all stocks here. Railroads have been purchasing considerable quantities of mountain oak and Pennsylvania hemlock recently. The Pennsylvania Co., as usual, was the heaviest buyer. Repairing work is going on briskly in the flooded districts. The Pennsylvania Railroad has completed communication on its line within the past few days.

Plain oak is in little request. Quarter-sawned fares but little better of late, excepting for cabinet work. Good wide stock sells best in oak. Exporters are not sending much of either plain or quartered across the Atlantic.

Cabinet oak can be had at \$36.50 to \$38. White oak quartered, \$48 to \$50. It takes good wide stock in the average to bring \$50.

Stocks of cherry are small; so is the demand. This balances the market and keeps prices normal. Good cherry, in 1-in. strips, \$43 to \$45. Culls (which are not wanted), \$18 to \$19.

Poplar is not selling as rapidly as last week—whatever the reason may be, which probably is because buyers are pretty well stocked up, which they ought to be, having been buying steadily for weeks past. Dealers claim that full association rates are paid; that is, \$32.50 for boards, but consumers declare they will pay, and are paying, no more than \$31 per thousand. Quotations remain at least nominally unchanged.

Boxboards are wanted. Cotton-wood is frequently used for this purpose, and brings \$21.50 and \$21.

Mahogany continues to move off well from week to week. Good prices are obtained. The prospects are very encouraging, so dealers say.

Quartered sycamore is growing in demand and price.

Good clear chestnut is wanted. Putt nut will sell at quoted rates for clear stuff.

There is a nice little business done in

gum, which is increasing in proportions from year to year.

Redwood is seldom inquired for. It still remains firm in price.

A little call is made for basswood.

The log market is not very active. Stocks are sufficient for all requirements. Ocean freights remain unchanged.

The sash, door and blind men are maintaining an unlooked-for harmony. The extraordinary amount of building being done in and near this city is keeping them well employed.

Cypress shingles will sell at quoted rates to country dealers who are in need of stocks.

Reports from Buffalo and Tonawanda, as well as from Boston, give backing to the statement that a good average business is being done in those centers. Up in Williamsport they are struggling bravely to get things into shape. The loss to that city is estimated at \$25,000,000. It will not be long before the enterprising lumbermen of that section will be in full operation again.

The export trade in soft woods is good. Clearances last week footed up 1,775,117 feet of lumber and 279,750 shingles. The largest shipment was made to the Mantanzas. The bulk of the stuff went to South America.

North Carolina sap is in excellent demand. Yarders are compelled to keep it in stock whether they want to or not, on account of the constant calls for it by consumers. Yellow pine is moving along in a quiet steady way at full prices. It is rumored that a reduction will set in, but wholesalers strenuously deny any likelihood of such a course.

Maine spruce is arriving in fair-sized lots and goes off soon. Stocks are up to all needs, however. Hemlock is quoted at 50 cents above last month's prices. It is not probable that hemlock will go higher, as there are large stocks ready to be tapped in other sections than Pennsylvania.

White pine uppers sell well. As regards the rest of white pine, there is rather a slack market for it. Stocks are fair. Pitch pine as a rule sells well. There will be a good call for bridge timbers, in fact there is now.

BOILERS, ENGINES, LIGHT LOCOMOTIVES, RAILS and EQUIPMENT,

Cotton Gins, Saw Mills, Wood - Working Machinery, and Heavy Hardware.

F. A. ESTEP.

OFFICE AND WAREHOUSE:

Corner Market and Cowart Streets, CHATTANOOGA, TENN.

For Sale.

BOILERS. ENGINES.

41 Second-Hand and 23 New Boilers, 13 Second-Hand and 19 New Engines. At buyers' prices. Address CASEY BOILER MFG. CO. Chattanooga, Tenn.

A Marine Railway Machine Shop

will pay good dividends if properly constructed and managed. Address

T. W. DEXTER,

P. O. Box 108, BRUNSWICK, GA.

BERNHARD DIETZ, Manufacturer of Printers' Rollers and Roller Composition. Factory, N. E. Cor. Grant and Mercer Sts., Baltimore. Prices: Composition (bulk) 30 cents per pound; for casting, a so 30 cents per pound. Orders by mail promptly attended to.

THE CROWDUS Electric Fare Box.

The only perfect light at night. Simplest in construction. Easiest to clean. Registers each fare. Increases earnings. Exposes frauds. The smallest and neatest. Write for catalogue "B."

Electric Fare Box Co. NASHVILLE, TENN.

PAVE THE STREETS OF YOUR TOWN WITH THE Cylinder Sapless Cypress Paving Blocks.

THE BEST AND CHEAPEST PAVEMENT KNOWN.

The officer in charge of streets and bridges of Paris, France, reports: "Wooden pavements in Paris have had an incontestable success, due partly because it is better understood, and the work better executed than in any other towns. The public appreciates it strongly, and the administration have come to the conclusion that the subject of paving no longer presents any difficulties. That which one appreciates in wooden pavements is its noiselessness to those who live along the public streets and its evenness, and at the same time its elasticity, which renders the traction much easier, and the many advantages it possesses both for foot passengers as well as for horses and all vehicles."

The undersigned are prepared to ship the blocks by rail or cargo lots to any point, and will contract to pave streets in any state. For particulars write to

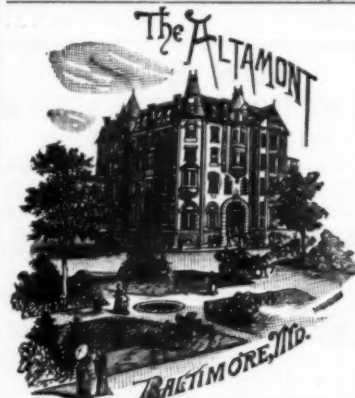
IMPROVED WOOD PAVEMENT CO. Mobile, Ala.

FOR SALE.

One J. A. Fay & Co. No. 8 "Lightning" Floorer. One J. A. Fay & Co. Self-feed Railway Cross-cut saw, almost new. One Huyett & Smith Double Exhaust Fan. One Egan Co. 36 in. Double Drum Sander, almost new. One Egan Co. late style Wheel Boxer. One 50 in. x 10 one-half Taper Sleeve Friction Clutch Pulley. One Egan Co. 6 in. four-sided Molder. All these machines have been thoroughly overhauled, and are guaranteed to be practically as good as new. Some of them have been used less than six months.

CORDESMAN MACHINE CO.

27 Butler Street, Cincinnati, O.



ENTIRELY NEW. HOME-LIKE. ELEGANT. HIGHEST ELEVATION ON HANDSOMEST STREET. American Plan, \$3.00 to \$4.50 per day. Telegraph for Rooms at our expense. C. WARNER STORK, Proprietor

MINOR SCOVEL, Pres.

H. S. JACKSON, Vice-Pres.

W. I. CHERRY, Sec. and Tres.

The Scovel & Irwin Construction Co.

OF BIRMINGHAM, ALA.

Address all correspondence to the Branch Office,

Cole Building, NASHVILLE, TENN.

General Engineers and Contractors

For the Design and Construction of

Water Works, Sewerage Systems, Railroads,

BONDS, STOCKS, MORTGAGES, AND OTHER SECURITIES NEGOTIATED.

Suburban Roads, Blast Furnaces, Fuel Gas Plants.

JOYCE, CRIDLAND & CO. DAYTON, O.

MANUFACTURERS OF

J. O. Joyce's Patent Lever Jacks,

Compound Lever

SCREW JACKS.

AND BENCH VISES.

50 varieties of Lever and Screw Jacks for railroad use. Please send for illustrated catalogue.

THOMAS J. SHRYOCK & CO. YELLOW PINE COMMISSION MERCHANTS.

Correspondence Solicited.

BALTIMORE AND WASHINGTON.

A. C. DANNER, Mobile, Ala.

Yellow Pine Flooring and Ceiling,

Stepping, Finishing, Decking, Car Sills,

And all kinds of Rough or Dressed Yellow Pine.

JOHNSON, SHRYOCK & CO.

HARDWOOD COMMISSION MERCHANTS.

Correspondence Solicited.

Office, - Shryock Building, BALTIMORE.

LONG-LEAF YELLOW-PINE

TIMBER LANDS.

10,000 acres on Salkehatchie River having three (3) good landings for shipment to Charleston, Savannah and Port Royal. Only five miles from C. & S. R. R. Tract contains prime oak, hickory, ash and cypress timber.

FOR SALE BY

E. WILLIS, Charleston, S. C.



\$80 will buy the best BAND SAW in the world. \$100 will buy our new PATENT 40-inch BAND SAW. \$185 will buy our new PATENT BAND RESAWING MACHINE. \$125 will buy the best AUTOMATIC RIP SAWING MACHINE, weatherboarding attachments included, and one 12-inch RIP SAW.

For further particulars address

STANDARD MFG. CO.

Moore's Hill, Ind.

W. EDWIN PEREGOY & CO.

WHOLESALE AND COMMISSION

LUMBER, LOGS AND STAVES,

113 S. GAY STREET,

P. O. Box 433.

BALTIMORE, MD.

FOR SALE.

WOOD-WORKING MACHINERY, full line, with latest improvements. Write for circulars and price-list

BENTEL, MARGEDANT & CO., HAMILTON, OHIO.

Another Great Railroad for the South.

The Georgia, Carolina & Northern Railway Co., which is a part of the very prosperous system made up by the Seaboard & Roanoke, Raleigh & Gaston, Raleigh & Augusta Air Line and Carolina Central Railroads, has just sold \$5,360,000 5 per cent. bonds for the purpose of completing its line direct from Monroe, N. C., to Atlanta. When this road is finished it will open up a new line of travel between the South and the North, and furnish much needed transportation facilities to a large section of country. The work of construction will now be pushed forward vigorously. The building of this line is one of the most important events in the recent railroad history of the South.

When the Georgia, Carolina & Northern is completed, this system will cover about 930 miles. The Seaboard & Roanoke Railroad, which is the parent company of this system, terminates at the city of Portsmouth, Va., upon a series of extensive wharves and docks, and enjoys so large and profitable a traffic that, after paying for many years 10 per cent. per annum in dividends to its stockholders, it has accumulated a surplus property of over \$1,270,000. This is represented in part by the ownership of a majority of the shares in the Raleigh & Gaston Railroad, which in its turn controls, by stock ownership, the Raleigh & Augusta Air Line Railroad. The Seaboard & Roanoke and Raleigh & Gaston Railroads together own, control by stock and bond ownership, the Carolina Central Railroad. The Seaboard & Roanoke Railroad holds also large interests in the Old Dominion Steamship Co. and in the Baltimore Steam Packet Co.

The Seaboard & Roanoke Railroad operates its own line, 83 miles in length, and by lease the Roanoke & Tar River Railroad, 34 miles in length. The Raleigh & Gaston Railroad operates its own line, 98 miles in length, and by lease the Louisville Railroad, 10 miles in length. It also controls by the ownership of a majority of the stock the Durham & Northern Railroad, 42½ miles in length. The Raleigh & Augusta Air Line Railroad operates its own line, 107 miles in length, and the Pittsboro Railroad, 12 miles, and the Carthage Railroad, 10 miles in length. The Carolina Central operates its own line, 287 miles in length.

The Savannah & Western Railroad Co. has sold \$5,000,000 bonds, and the money has been placed in its treasury for the completion of its line from Savannah to Birmingham.

MANAGERS of mills, factories, furnaces, mines, etc., and parties starting manufacturing enterprises and needing machinery or supplies of any kind, will find it profitable to consult the advertising columns of the MANUFACTURERS' RECORD. Its pages contain names of the best houses in the country among manufacturers of and dealers in machinery and mill supplies.

New Southern Banks.

Alvarado, Texas.—A national bank is being organized. Capital will be \$50,000.

Brownsville, Tenn.—W. H. Dodson, of Humboldt, and others will start a bank. R. H. Anderson will be cashier.

Brunswick, Ga.—E. S. Marsh, of Vermont, is making efforts to organize a State bank with \$50,000 capital. A. J. Crovatt will probably be interested.

Burkville, Ky.—The Bank of Cumberland has been organized with H. C. Trigg, of Glasgow, as president, and J. A. Dixon, cashier.

Cedartown, Ga.—The First National Bank, capital \$50,000, has been organized with C. L. Hardwick as president; W. T. Gibson, vice-president, and J. O. Hardwick, cashier. Will succeed Hardwick & Co.

Chattanooga, Tenn.—E. Watkins, T. F. Stewart, W. W. Sylvester and others have incorporated the Bank of Commerce, and will soon open for business. Capital is to be \$250,000.

Columbia, S. C.—The capital stock of the Palmetto Loan & Savings Association has been increased from \$25,000 to \$50,000.

Dallas, Texas.—The Fourth National Bank, reported last week, are increasing capital from \$200,000 to \$600,000, and may increase to \$1,000,000, as stated.

Dallas, Texas.—The North Texas Mortgage Co., with \$100,000 capital stock, has been incorporated by James B. Simpson, C. H. Huffran, H. C. Clark and M. L. Robertson.

Darlington, S. C.—The Bank of Darlington will add a savings department.

Engesfield C. H., S. C.—The Bank of Edgefield has made a net profit of \$3,881.98 upon \$53,060 capital for the past six months.

Fort Worth, Texas.—A. W. Caswell, S. B. Allen and R. H. Sellers have incorporated the Texas Mortgage & Loan Co., capital stock \$200,000.

Frankfort, Ky.—The First National Bank has been organized with L. C. Norman, Charles E. Hoge, John W. Games and others as directors. Fayette Hewitt is president. Capital is \$150,000.

Frankfort, Ky.—Col. John L. Scott is organizing a \$100,000 bank.

Greenwood, Miss.—The name of the \$100,000 bank, previously reported as to be started, is the Delta Bank. J. S. McDonald is president; T. S. Mayre, vice-president, and John R. Outley, cashier.

Griffin, Ga.—A \$100,000 national bank is being organized.

Jonesboro, Ark.—A savings bank is reported to be started.

Lancaster, S. C.—Gen. J. B. Erwin is organizing a State bank to have capital of \$50,000.

Marion, S. C.—B. F. Davis, A. Campbell, P. B. Hamer, A. B. Nichols and others are organizing the Merchants and Farmers' Savings Bank. Capital is to be \$50,000.

Marshall, Texas.—A National bank is being organized by George A. Wright, A. Michaelson and George W. Burkhardt, of Palestine, and others. Capital will be at least \$75,000.

Martin, Tenn.—The Bank of Martin are about increasing capital stock from \$50,000 to \$100,000.

Middlesborough, Ky.—The Middlesborough Banking Co., with capital of \$100,000, has been organized.

Milan, Tenn.—The People's Bank has been organized by W. B. Williams, W. A. Wade and others.

Mossy Creek, Tenn.—There is talk of starting a bank.

New Birmingham, Texas.—A bank is to be established shortly by Kansas City (Mo.) parties.

Newport, Ark.—The Bank of Newport, capital \$50,000, has been organized with John W. Stayton as president; George W. Decker, vice-president, and R. M. Johnson, secretary, treasurer and cashier.

Paducah, Ky.—The Paducah Banking Co., lately reported as opening subscription books, has been organized with T. C. Leech, president, and William Hughes, cashier. Capital is \$100,000. Will start business July 15.

Port Gibson, Miss.—It is reported that a bank will soon be started by V. & A. Meyer & Co., of New Orleans, La.

Quitman, Ga.—The Brooks Alliance Warehouse & Banking Co. will be organized soon to start a bank, &c.

Rusk, Texas.—Parties from Kansas City, Mo., will soon start a bank, the capital of which is to be \$50,000.

Trappe, Md.—The Talbot County Savings Bank has been organized and commenced business. Dr. Chaplain is president, and R. T. Mullikin, secretary.

Vernon, Texas.—Wood & Co. have sold their banking business to the First National Bank.

Vicksburg, Miss.—The Delta Trust & Banking Co. has lately been organized, and will start business about August 1. Will have a savings department.

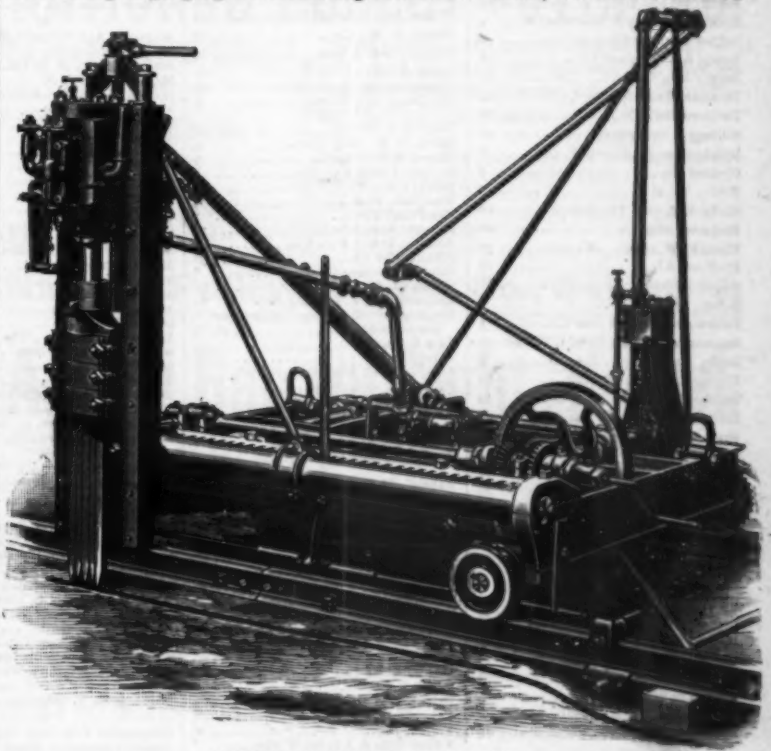
Vicksburg, Miss.—The People's Savings Bank has been organized with \$50,000 capital. C. O. Willis, A. Warner and D. Rice are among the incorporators.

Waycross, Ga.—The Laborers' Loan & Savings Bank, capital \$50,000, will be incorporated at the July session of the legislature.

Winchester, Tenn.—The Home Bank has commenced business. R. A. Clarke is president, and S. M. Alexander, cashier.

The Sullivan Steel Gang Channeling Machine.

The accompanying cut represents a new direct acting single gang and channeling



STEEL GANG CHANNELING MACHINE

machine which presents many new and valuable features.

Direct acting channelers are it is claimed, by far the simplest, as they avoid the use of levers, cranks and springs, allowing the whole force of the steam to be utilized in effective work. It is claimed that the design and construction of the Sullivan channeler prevents the equilibrium from being distributed by the action of the machine, while these features and the manner of operating the striking mechanism avoid any excessive vibration and result in smooth running.

One of the special features of this channeler is the large amount of channel it will cut under average working conditions, in all kinds of stone. The high cutting capacity is due to the correct proportioning and the strength and rigidity of the machine throughout, and to the means of regulation and adjustment provided to suit all conditions of operation. The machine is moved along the track by a small engine which is entirely independent of the striking engine, and can be run when that is idle.

Another special feature is the arrangement of valves for economy of steam. Steam throttle and cut-off valves enable

the operator to regulate the steam supply as demanded by the kind of stone and depth of channel, and a cushion valve below the piston cushions the blow, when necessary, so that the drills will ride over seams or low places in the channel, while at work, without danger of the piston striking the cylinder head.

Solid buttment of the drills prevent their slipping, and avoid the use of keys or wedges; it also prevents injurious cross strains on the piston rod, clamp bolts and guides, and as means of adjustment are provided for all wearing surfaces, and as the equipment includes duplicates of parts liable to need replacing the cost of repairs is slight. The cost of repairs is further lessened by the use of swivelled steam pipes, which will not leak or burst, and which replace the usual costly and unsatisfactory steam hose.

Convenience of arrangement has been made a special study in designing this machine. Throttle valve, cushion valve, stroke indicator and automatic reversal of carriage are provided, and all valves, levers, etc., are within easy reach of the operator.

Not only can any kind of stone be cut with this machine, but inclined channels

can be cut as well as vertical, and waste of stone is lessened by the arrangement of the machine to cut to within five to eight inches of the walls of the quarry.

The following figures will enable a comparison to be made between this machine and others similar to it: Weight of channeler without boiler, 4,800 lbs.; with boiler, 7,000 lbs.; shipping weight with complete equipment of track sections, drills and tools, without boiler, 9,000 lbs.; with boiler 11,200 lbs. These weights are such as to insure sufficient strength and rigidity for rapid work and high cutting capacity while allowing the machine to be readily handled and to be operated in a small space. Length and width of machine over all, eight feet by seven feet. Height without boiler, six and one-half feet; with boiler, seven and one-half feet. Gauge of track, four feet eleven inches. Distance between channels cut by reversing machine without changing track, six feet four inches.

The Sullivan steel gang channelers are kept in stock by the Diamond Prospecting Co., 74 and 76 West Lake street, Chicago, Ill., who will be glad to give information as to their cost, capacity and other details. In designating this machine it is necessary to specify steel gang channeler, to avoid confusing it with the diamond pointed channeling and gadding machines which have been built since 1880 by the same company.

Alphabetical Index of Advertisers.

Abbott, D. S.	40	Contractors' Plant Mfg. Co.	41	Indiana Machine Works	7	Robinson, Wm. C. & Son	47
Abendroth & Root Mfg. Co.	1	Copeland & Bacon	44	Ingersoll-Sergeant Rock Drill Co.	7	Robinson & Orr	44
Adams, S., & Sons	1	Cordeman Machine Co.	38, 40	Jarvis Engineering Co.	4	Rochester Machine Tool Works	4
Adams & Price Locomotive & Machine Works	46	Cordesman, Meyer & Co.	6	Jeffrey Mfg. Co.	48, 62	Rogers, H.	3
Addyston Pipe & Steel Co.	67	Covart Mfg. Co.	57	Jenkins Bros.	5	Rogers & Co., C. B.	4
Aerated Fuel Co.	41	Crompton Loom Works	9	Johnson, R. M.	9	Rogers, Saml. C., & Co.	49
Aitchison, Robt., Perf. Metal Co.	53	Cronk Hanger Co.	*	Johnson, Shryock & Co.	38	Rollstone Machine Co.	48
American House	62	Curtis Regulator Co.	4	Jones & Mack	35	Rome Foundry & Machine Works	48
American Machine Co.	59	D		Joyce, Cridland & Co.	38	Ross, Josiah	48
American Ring Traveler Co.	*	Daft Electric Light Co.	2	Kaestner & Co., Chas.	45	Rouse, R. R.	48
American Supply Co.	3	Danner, A. C.	38	Kanneberg Roofing Co.	61	Rowley & Hermance	6
Andrew, Thomas J.	60	Danville, Va.	58	Keeler Co. E.	5	Russell & Co.	4
Anniston City Land Co.	25	Davidson Steam Pump Co.	3	Kilbourne & Jacobs Mfg. Co.	68	Russell Wheel & Foundry Co.	4
Arctic Ice Machine Mfg. Co.	56	Davis, W. P.	68	Kilmer Mfg. Co.	37	Ryan Co., Jno.	63
Arnold, D. J. C.	45	Dean Bros. Steam Pump Works	66	Knoxville Car Wheel Co.	46	Ryan & McDonald	44
Ashly Bromine & Arsenic Wat. Co.	60	Deane Steam Pump Co.	6	Kroeschels & Bourgeois	48	Ryder & Dearth	62
Austin, F. C., Mfg. Co.	67	Decatur Land, Imp. & Furnace Co.	23	Ladd, Alfred W.	37	Santley, W. R., & Co.	48
Avery, Frank C. B.	37	Defiance Machine Works	*	Ladewig & Dunn Co.	66	Saunders, D. Sons	56
B		De Loach Mill Mfg. Co.	*	Lane & Bodley Co.	9	Sawyer-Man Electric Co.	3
Babcock & Wilcox Co.	5	Detrick & Harvey	53	Lath & Morse Tool Co.	47	Scott & Co.	53
Babcock, H. H., Treas.	53	Detroit Foundry Equipment Co.	46	Latta, C. G.	36	Scott & Co.	53
Balderson, H. & Son	60	Detroit Saw Works	*	Leffel, Jas. & Co.	40	Sebastian, May & Co.	38
Baldwin Locomotive Works	46	Detroit & Cleveland S'm Nav. Co.	41	Lehmau-Evans Machine Co.	*	Security Mutual Benefit Society	61
Ball Engine Co.	5	Devlin & Co., Thos.	41	Lidgerwood Mfg. Co.	3	Sedgwick Bros.	48
Barnes, W. F. & John, Co.	47	Dexter, T. W.	38	Ligovsky Clay Pigeon Co.	60	Seyfert, L. F.	37
Barr Pumping Engine Co.	66	Diamond Machine Co.	48	Lincoln Iron Works	40	Sheffield Land, Iron & Coal Co.	32
Barry, W. B., Saw & Supply Co.	*	Diamond Prospecting Co.	44	Link Belt Engineering Co.	36	Shepard Hardware Co.	68
Bates, Jas.	62	Dietz, Bernhard	38	Lockwood, Greene & Co.	35	Shields & Brown Co.	48
Bay Line	62	Dillard & Walton	36	Lodge, Davis & Co.	37, 68	Shimer, Samuel J.	*
Beach, H. L.	8	Dirigo Engine & Machine Co.	50	Lombard, Geo. R. & Co.	53	Shrock, Thos. J., & Co.	38
Beckett Foundry & Machine Co.	4	Diston, Henry, & Sons	8	Long & Allistair	50	Shultz Helting Co.	54
Beiden Machine Co.	48	Dixon, Jos., Crucible Co.	54	Lottman Bros.	36	Shutouny Tool Co.	48
Bentel & Margendant Co.	38	Dolph, A. M., Co.	67	Lowe & Tucker	55	Silver & Deming Mfg. Co.	66
Berger Mfg. Co.	61	Draper, Geo. & Sons	10	Lowell Steam Boiler Works	53	Simpkin & Hillier	64
Besemer Land & Imp. Co.	24	Dufur & Co.	60	Ludlow Saylor Wire Co.	48	Skinner Engine Co.	50
Bickford Drill Co.	67	Du Quoin Iron Works	53	Ludlow Valve Mfg. Co.	67	Smith & Courtney	54
Billings & Spencer Co.	47	E		M		Smith, H. B., Machine Co.	54
Binghamton Hydraulic P. Co.	*	Eagle Iron Works	48	Magnolia Anti-Friction Metal Co.	65	Smith, J. A. V.	9
Birdsall Co.	5	Earns, T. K., Mfg. Co.	9	Magruder, Geo. H.	36	Smith, Jas. & Co.	1
Bixby, W. N.	36	Easton & Burnham	9	Magedance, C. R. & Co.	35	Smith, R. C.	55
Blake Mfg. Co., The Geo. F.	66	Eclipse Pump Mfg. Co.	49	Marquette, John N.	41	Smith & Vaile Co.	60
Blakeslee Mfg. Co.	66	Eddy, Chas. G.	49	Martin, Henry, Brick Mch. Mfg. Co.	45	Smith, Vaile & Tompkins, Inc.	64
Bliss, E. W., Co.	36	Edmonds, Elias	53	Maryland Tack Co.	60	So. Fla. Foundry & Machine Co.	37
Bluffton, Ala.	28	Egan Co., The	7	McGowan, The Jno. H. Co.	67	Springfield Glue & Emery Wh' Co.	62
Boggs & Clarke	66	Electric Fan Box Co.	38	McLanahan & Stone	65	Squier, Geo. L. Mfg. Co.	7
Bokop, H. D.	62	Electric Power Pub. Co.	38	McLane, H. & Co.	60	Standard Dry Kiln Co.	7
Bookwalter Steel & Iron Co.	5	Ellicott Car Co.	36	Mechanic	33	Standard Mfg. Co.	38, 61
Boomer & Boichert Press Co., The	35	Ellicott Machine Co.	*	Merry, C. H.	42	Standard Tool Co.	68
Boyle, David	8	Emerson, A. S.	36	Merry, J. F.	49	Starr, B. F. & Co.	45
Boylston, Mrs. A. S.	50	Empire Paint & Roofing Co.	61	Mersick, C. S. & Co.	49	Stearns, E. C. & Co.	45
Bradley & Co.	50	Employers' Liability Assurance Corporation	8, 46, 63	Meyers, Fred. J., Mfg. Co.	57	Stephenson, John, Co. (Limited)	46
Bradstreet Co.	62	Erie Railway	50	Milburn Glue & Machine Co.	1	Stiles & Parker Press Co.	62
Bray & Nickerson Auto. Gage	48	Estep, F. A.	36	Miller & Bierce	65	Stillman House	61
Brewer, H., & Co.	45	E. T. Va. & Ga. Ry.	62	Millers Falls Co.	55	Stillwell & Bierce Mfg. Co.	63
Brown, Alex., & Sons	35	Eureka Co.	36	Miner & Kettig	55	St. Louis Vise & Art-Asia Well Co.	16
Brown Cotton Gin Co.	9	Eureka Mfg. Co.	53, 55, 62	Mingelberg, W.	37	Stokes & Parrish Machine Co.	*
Brown & King Supply Co.	9	Evans Friction Cone Co., The	36	Moore, F. H.	44	Stratton Separator Co.	5
Brush Electric Co.	68	"Experience"	36	Moore & White Co., The	41	Sturtevant, B. F.	55
Buckeye Engine Co.	68	Eynon & Ingersoll	37	Morris Machine Works	53	Sun Vapor Light & Stove Co.	40
Buckeye Iron & Brass Works	*	F		Morrison, Robert	5	Sweet, Frank	1
Bu yus Fdry. & Mfg. Co.	3	Fabals, F. Sons	36	Morristown, Tenn.	26	Swormstedt, R. & Co.	53
Buffalo Forge Co.	68	Fair River Paper & Bobbin Co.	9	Morse, Williams & Co.	1	Syracuse Twist Drill Co.	*
Buffalo Steam Pump Co.	66	Fay, J. A. & Co.	9	Munson Bros.	45	T	
Bullock, M. C., Mfg. Co.	44	Felthousen & Sherwood	5	Murray, Jas. & Son	45	Tanite Co.	*
Burke, P. F.	62	Filer & Stowell Co., Inc.	40, 49	Myers, F. E. & Bro.	60	Taper-Sleeve Pulley Works	48
Bush, Louis	36	Fisher, E. W.	40	N		Taylor Mfg. Co.	41
Butterworth, H. W. & Sons	9	Fishkill Landing Machine Co.	3	Nashville Iron, Steel & Char. Co.	50	Taylor, Wm. & Sons	4
Byrnes, M. A.	64	Fletcher & Thomas	45	National Pulley Covering Co.	41	The Altamont	38
C		Florence, Ala.	21	New York Belting & Packing Co.	37	The Tolchester Co.	49
Caldwell, H. W.	8	Foley, J. T. & Co.	3	New York Equipment Co.	37	Thompson-Houston Electric Co.	41
Caldwell, Wm. H.	57	Fort Payne Coal & Iron Co.	65	New York Machinery Depot	37	Tift, Geo. W. Sons & Co.	4
Cambridge Roofing Co.	61	Foundry & Machine Department	97	New York Stamping Co.	37	Titus & Babcock	6
Cameron, A. S., Steam Pump Wks.	67	Harrisburg Car Mfg. Co.	5	"Niagara" Hotel	59	Todd Pulley & Shafting Works	51
Canton Steel Roofing Co.	61	Frank & Co.	4	Nicholson Stamping & Tool Co.	36	Tompkins Co., D. A.	37
Canton Steam Pump Co.	67	Frank Co.	4	Nicholson File Co.	36	Tompkins, J. G. W.	37
Carey, Thos. K. & Bros.	1	Fritz, Geo. J.	4	Niles Tool Works	47	Toomey, Frank	37
Carlisle Mfg. Co.	40	Fulton, Jas.	36	Nordyke & Marmon Co.	10	Trevor & Co.	37
Carier, Jno. S.	60	Fulton Iron & Engine Works	36	North American Metal Co.	9	Turner, Jno. & Son	37
Casey Boiler Manfg. Co.	38	G		Northampton Emery Wheel Co.	35	Turney, C. P.	8
"Cash"	8	Gambrell, C. A., Mfg. Co.	63	Norton Emery Wheel Co.	64	U	
Castle Engine Works	37	Gandy Belting Co.	63	Noye, John T. Mfg. Co.	*	Udell Woodenware Co.	63
Chalmers-Spence Co.	*	Garvin, E. & Co.	68	O		U. S. Mineral Wool Co.	65
Chambers Brothers Co.	45	Gates Iron Works	44	Obermayer Fdy. Sup. Mfg. Co.	55	V	
Chandler & Taylor	4	Gates, Myerson D.	44	Ohio Co-operative Shear Co.	60	Valley Pump Co.	66
Charlottesville, Va.	49	Gerlach, Peter & Co.	6	Okonite Co.	10	Van Duren Gas Engine Co.	55
Charlton, C. H.	36	Glamorgan Co., The	67	Otto Gas Engine Works	10	Van Dusen & Tiffin	55
Chattanooga Foundry & Pipe Wks.	67	Glen Cove Machine Co., (Lim.)	6	P		Van Noorden, E. & Co.	59
Chattanooga Saw Works	68	Globe Iron Roof & Corrugating Co.	61	Page Belting Co.	54	Van Wagoner & Williams Co.	50
Chattanooga Paint Co.	55	Globe Machine Works	*	Palmer, J. E.	49	Van Winkle & Co., E.	9
Chesapeake Belting Co.	54	Goodell & Watson	63	Palmer, Cunningham & Co. (Lim.)	49	Van Winkle Gin & Machinery Co.	35
Chester Steel Castings Co.	47	Green & Son, Ed.	63	Pancoast & Maule	56	Vulcan Iron Works	35
Chicago Rawhide Mfg. Co.	*	Greer, Jno.	36	Payne, B. W. & Sons	4	W	
Child, O. W. & Co.	17	Griffing Iron Co., A. A.	47	Peck, John	37	Wainwright Mfg. Co. of Mass.	48
C. H. & D. R. R.	62	Grubbs Cracker Co., H. B.	36	Penberthy Injector Co.	37	Waldron & Sprout	63
Cincinnati Corrugating Co.	61	H		Penfield, J. W. & Son	53	Walker Mfg. Co.	62
Clark, Geo. P.	60	Haines, Jones & Cadbury Co.	55	Pennsylvania Steel Co.	46	Walsham Emery Wheel Co.	64
Clark, Jeremiah	9	Hall, Amos H.	6	Perego & Co., W. Edwin	38	Ward, J. J.	36
Clark & Bibb	37	Harrison & Logwood	50	Pettec Machine Works	9	Warfield Mfg. Co.	36
Cleveland City Forge & Iron Co.	10	Harris, A. W., Oil Co.	6	Phenix Iron Foundry	65	Washburn & Moen Mfg. Co.	10
Cleveland Target Co.	8	Harris, Wm. A., Steam Eng. Co.	61	Phenix Incandescent Lamp Co.	47	Waterbury Rubber Co.	10
Cleveland Twist Drill Co.	8	Harrington & King Perforating Co.	61	Phosphor-Bronze, Smgt. Co. (Lim.)	63	Waterloo Land Mining & Mfg. Co.	49
C. & O. Ry. Co.	62	Hartford Steam Boiler Inspection & Insurance Co.	61	Piedmont Air Line	36	Waters, Jas. W., Secretary	49
Coe & Wilkes	*	Heathcote, Jno.	9	Pierce, Butler & Pierce Mfg. Co.	5	Waters & Garland	9
Collian, Victor	53	Heister Electric Light Co.	35	Place, George	37	Watson & Stillman	66
Colonnade Hotel	59	Hetherington & Nason	35	Porter, H. K. & Co.	46	Webster, Camp & Lane Machine Co.	41
Commonwealth Construction Co.	64	Higdon & Higdon	61	Powell, A. C., & Son	*	Wells Rustless Iron Co.	48
Continental Iron Works	65	Hill Clutch Works	40	Pratt, J. H.	50	Western Maryland Railroad	63
		Hine & Robertson	*	Prentiss Tool & Supply Co.	37	Westinghouse Machine Co.	5
		Holmes, E. & B.	6, 48	Progressive Iron Works Co.	48	Whitely & Lake Erie Railway	40
		Holton Iron Roofing Co.	61	Prvill, P.	64	Whitinsville Spinning Ring Co.	6
		Hooker-Collins Steam Pump Co.	66	Pulsometer Steam Pump Co.	67	Whitney & Sons, A.	49
		Hoopes & Townsend	47	Q		Wier & Wilson	59
		Houston, Levi	8	Queen City Printing Ink Co.	63	Williams & Co., H. A.	57
		Hughes Steam Pump Co.	53	R		Williamsport Wire Rope Co.	57
		Humphreys & Sayce	37	Racine Hardware Mfg. Co.	5	Williams & Son, Jno. L.	38
		Hunt & Connel	35	Rand Drill Co.	5	Willis, E.	36
		Hunt, Rodney, Machine Co.	35	Rarig & Co., Alex. K.	45	Wilmington, N. C.	*
		Huyett & Smith Mfg. Co.	40	Raymond, C. W. & Co.	4	Wilson, Colston & Co.	35
		Hyndman, W. G. & Co.	60	Record Printing House	5, 65	Wiswell Electric Min'g Mach'ry Co.	44
		I. & G. N. R. R.	*	Register & Sons, J.	5, 65	Worthington, Henry R.	30
		Illuminating & Fuel Gas Co.	41	Reliance Gauge Co.	5	Wyckoff, A. & Son	67
		Improved Wood Pavement Co.	38	Reliance Oil & Grease Co.	9	Wytheville, Va.	49
				Richardson, W. A., & Co.	45	Wythe County, Va.	49
				Richmond City Mill Works	45, 60	X. Z.	38
				Richmond Locomotive & Machine Works	46	Y	
				Richmond Standard Spike Co.	46	Yarborough, Jas. N.	35
				Riehle Bros.	3		
				Roanoke City, Va.	43		

CARLISLE MFG. CO. Cars, Engines, Frogs

AND SWITCHES,

CARLISLE, PA.

ROCK DRILLS
AIR COMPRESSORS &
GENERAL MACHINERY FOR
MINING, TUNNELING,
QUARRY & RAILROAD WORK
RAND DRILL CO. 23 PARK PLACE, NEW YORK

HUYETT & SMITH MFG. CO.

DETROIT, MICH.

HOT BLAST DRY KILN APPARATUS,
For every kind of Hot Air Drying, Heating Shops,
Factories, etc. Forge and Pressure Blowers,
Exhaust Fans, Ventilator Fans, Dust Sep-
arators. Send for Circular.

The Filer & Stowell Co.

MILWAUKEE, WIS.

Manufacturers of

Saw MILL Machinery

OF EVERY DESCRIPTION.

Write for our prices.

FOR ANYTHING IN THE LINE OF
WOOD-WORKING MACHINERY,
CORRESPOND WITH
CORDEMAN MACHINE CO.
CINCINNATI, OHIO.

FOR THE BEST AND
LOWEST PRICED
GANG LATH MILL
AND BOLTER COMBINED
ADDRESS
D. S. ABBOTT, OLEAN, N.Y.

New Doty Manufacturing Co.

JANESVILLE, WIS.

Manufacturers of Hand and Belt Power

Punching and Shearing Machinery,
BOILER MAKERS' ROLLS, &c.

PORTLAND CEMENT.

German and English Brands of Best Quality.

Send for tests and all particulars to
ERSKINE W. FISHER,
WELLS BUILDING, No. 18 Broadway, NEW YORK.

LINCOLN IRON WORKS,

MANUFACTURERS OF

MACHINERY
For Working and Handling

MARBLE & STONE
Send for Illustrated Catalogue, free.

Rutland, - Vermont.

Plantation Engines
With Self-Contained
RETURN FLUE BOILERS,
FOR DRIVING
COTTON GINS AND MILLS.
Illustrated Pamphlet Free. Address
JAMES LEFFEL & CO.
SPRINGFIELD, OHIO,
or 110 Liberty St., New York.

WHAT YOU HAVE LONG SOUGHT!
THE "BOSS" FLUSH T-BEVEL
Description.—Disc attached to blade is
marked # for Square (90°), # for Window-
ill Pitch (45°), # for Octagon (45°), # for
Hexagon (30°), # for Miter (45°). Move to
mark desired, lock by pressing button on
side and fasten by turning thumb-screw.
PRICE:
10 in. Size, \$1.50.
Postage prepaid.
THE HILL BEVEL CO.,
MANCHESTER, GOWK.

THE SUN
VAPOR LIGHT & STOVE CO.
CONTRACTORS FOR
LIGHTING THE STREETS OF
CITIES AND TOWNS
MANUFACTURERS OF ALL KINDS OF
VAPOR LIGHTS, STOVES, RANGES,
AND ALL KINDS OF HEATING
APPLIANCES.
SUN & WATSON, 111 HILL ST.,
CANTON, MASS.



COPYRIGHTED BY H. W. HILL, 1888.

HILL Clutch Works, CLEVELAND, OHIO.

NEW YORK:
15 CONSLANDT STREET.
CHICAGO: MINNEAPOLIS:
28 S. Canal Street. 306 Kasota Bldg
KANSAS CITY, MO.:
1221 Union Avenue.

POWER PLANTS Designed, Erected and Furnished.

Send for new Catalogue, Power Transmission Machinery.

Machine Molded Pulleys, Hangers, Boxes



COUPLINGS AND SHAFTING.
FIRE FRONTS, HEAVY MACHINE CASTINGS
OF ALL DESCRIPTIONS.

HOISTING AND TRANSMISSION SHEAVES.
Get Our Prices Before Purchasing.

Estimates given on Pulleys and Band Wheels to 30 feet in diameter. Send for Catalogue.

TODD PULLEY AND SHAFTING WORKS
EAST ST. LOUIS, ILL.

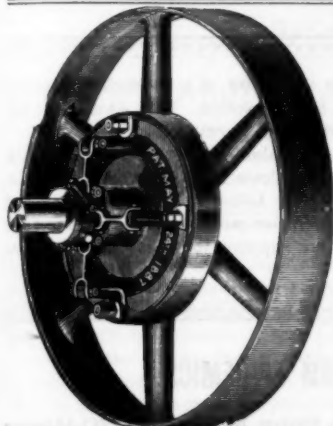


SHAFTING, HANGERS, AND PULLEYS A SPECIALTY.

FIRST-CLASS IN EVERY RESPECT.

Send Specifications for Estimates before Contracting.

THE LANE & BODLEY CO.
2 to 44 JOHN ST., CINCINNATI, O.



The MOORE & WHITE CO.

1312 Buttonwood St., PHILADELPHIA, PA.

Friction Clutches, &
Cut-Off Couplings, &c.
Paper Mill
Machinery, &c.

NATIONAL PULLEY COVERING.

Saves Power, Belting,
Machinery.

Cheap, Durable,
Effective.

Easily Applied.

No Rivets. Try It.

WHO does not know MESSRS. G. W. GAIL & AX; they are among the largest Tobacco Manufacturers in the world.— This is what they say:

BALTIMORE, MD.
Dear Sirs:—We take pleasure to state that the 'PULLEY COVERING,' which was put on two of our pulleys in May, 1884, works very satisfactory. We have the covering now on six pulleys, and have never found the belts to slip since.

Yours respectfully, G. W. GAIL & AX.

National Pulley Covering Co., Baltimore.

A New Gas for Light and Fuel.

THE BROOKS GAS PROCESS

In practical operation converts crude petroleum into a fixed or non condensable gas for illumination or fuel. The attention of gas companies is called to this process, as by its adoption they will be able to produce a light of equal brilliancy to that of the electric light, and at less cost than by any other process. Manufacturers will find this the fuel with which to compete with natural gas.

ILLUMINATING & FUEL GAS COMPANY,

920 to 925 Drexel Building, Philadelphia, Pa.

W. A. LEAVITT,

HENRY W. BROOKS,

SAMUEL B. HUEY,

Pres. and Gen. Mgr.

Vice-Pres. and Gen. Supt.

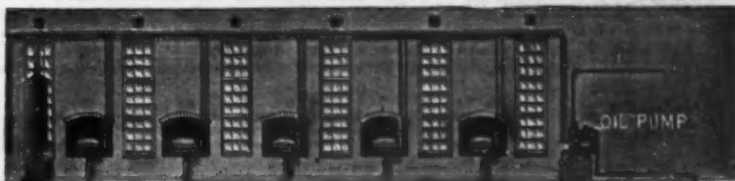
General Counsel.

THE AERATED FUEL COMPANY,

425 MAIN STREET, SPRINGFIELD, MASS. J. H. BULLARD, Manager.

FORGING AND WELDING BY PETROLEUM AIR BLAST

THE ONLY RIVAL OF NATURAL GAS! ECONOMY OVER COAL!



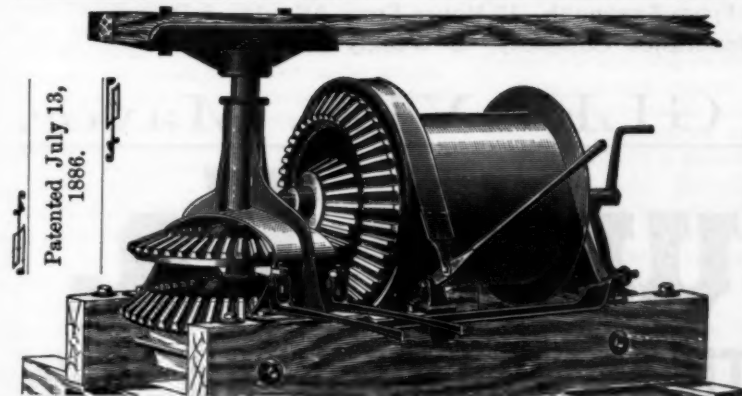
This Cut shows our System in Actual Operation in a Nut and Bolt Works where the output is about 40 Tons Daily.

CONTINUOUS FIRES ALL DAY. NO SMOKE, DIRT, or ASHES.

—Brass Work a Specialty.—Insurance Not Increased.

ALDEN SPEARE'S SONS & CO., 3 Central Wharf, Boston, Mass., HARRIS

CORRESPONDENCE SOLICITED. ETT, SON & CO., 170 Lake St., Chicago, Ill., Agents



AN IMPROVED HORSE POWER HOISTING MACHINE, with a combination of fast and slow speed. With fast speed a horse will lift 1,000 to 1,500 lbs. on a single line at a speed of 60 feet per minute, and with a single block 3,000 lbs. 40 feet per minute. With the slow speed a weight of 1½ tons with a single line, and with a single block 3 tons; with two single blocks 5 tons; with double single blocks 7 tons. The speed single line 30 feet per minute, with single block 15 feet per minute. In this combination of gears the user has the advantage of two machines embraced in one, with a saving of 25 per cent. in cost and 60 per cent. in weight.

SIMPLE, DOES NOT GET OUT OF ORDER.

WRITE FOR ILLUSTRATED CATALOGUE OF

HORSE POWER HOISTING MACHINERY

For Bridge Builders, Contractors, Quarrymen, Mineral and Coal Miners, Masons and Builders.

DERRICKS AND CONTRACTORS' SUPPLIES. Mention this paper when you write.

Webster, Camp & Lane Machine Co.

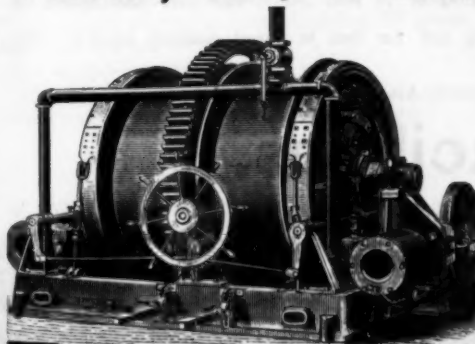
BAND FRICTION
HOISTS.

Endless and Tail Rope
Haulage Engines for

COAL MINES.

Automatic and Slide Valve
Steam Engines, Boilers,
Pumping Plants, Cages,
Ore Cars,
Sheaves, etc.

AKRON, O.





National Hardware and Malleable Iron Works.

Tackle Blocks, Oar Locks, Cleats, Thimbles and Awning Fittings

MADE OF THE BEST MALLEABLE IRON GALVANIZED

MALLEABLE, SOFT GREY IRON and STEEL CASTINGS to order.

ALL KINDS OF FITTING AND FINISHING

THOS. DEVLIN & CO., Lehigh Ave. and Third St., Phila. Pa.

Shafting, Hangers.

Custom of every
Description made.
Stationary, Distillery,
Mill and Pull & Vo's.

JNO. N. MARQUETTE, 118 W. Falls Ave., {Near
Falls
Street} BALTIMORE, MD.

A SUMMER RESORT

2,300 Feet Above Sea Level
Pure Oxygenated Air, Broad
Streets, Fine Pavements,
Mineral Waters.

WYTHEVILLE,★ **VIRGINIA.** ★**THE COMING
Winter Sanitarium**

OF THE SOUTH.
Dry Atmosphere. Tempered
Winds. Pure Water, Macadam-
ized Streets, Turnpike Roads,
Mineral Waters.

"THE SARATOGA OF THE SOUTH."**AN ALL THE YEAR-ROUND RESORT.**

With its present capacity cannot accommodate the crowds of summer visitors. Hence, to secure a large modern hotel the town council will donate a site containing ten acres of land, beautifully situated, with commanding views of surrounding mountains, and perfect drainage, to any person who will build one.

The town is situated on the summit of the Alleghenies, 2,300 feet above tidewater, 133 miles from Lynchburg, 71 from Bristol, Tenn., and on the line of the Norfolk & Western Railroad, midway between New York and New Orleans. Population 3,000. No better place situated for a summer and winter resort.

Its air is pure and invigorating. During the summer months a pleasant mountain breeze cools the heat of midday, and a blanket is requisite for comfort during the night. It is recommended by eminent physicians to those suffering with consumption, catarrh, dyspepsia, nervous prostration and insomnia.

It is beautifully laid off in squares, with wide streets, many of which are macada-

mized and adorned with spacious yards. It is the center of a network of country roads, all affording delightful drives for health and recreation. It is situated in the famous blue grass region, and the grass is of spontaneous growth.

It contains an ever flowing fountain of excellent alum-chalybeate water on Main street, especially recommended for dyspeptics and delicate ladies and feeble children, free to all. Within a few miles is the celebrated Cove Lithia Springs, specially noted for its curative powers. Limestone and Freestone Water can be had in abundance.

Its church, school and collegiate facilities are superior to those of any summer resort in the State.

FREE FROM MALARIA. FREE FROM MOSQUITOES. FREE FROM CYCLONES. FREE FROM EPIDEMICS.

19 Hours from New York. 12 Hours from Washington. 37 Hours from New Orleans. 24 Hours from Memphis. 20 Hours from Louisville. 12 Hours from Nashville. 24 Hours from Savannah. 15 Hours from Atlanta. 6 Daily Trains. 1 Telegraph Office. 2 Banks. 1 Insurance Company. 2 Weekly Papers.

ADDRESS

C. W. GLEAVES, Mayor.

Wythe County, Va.

First Premium Mineral and Timber County of the State.

Awarded at Richmond Exposition, 1888.

The best Mineral, Timber and Agricultural County inviting the attention of Railway and Manufacturing Capitalists in the Appalachian Chain.

The best bodies of Mineral and Timber are in close proximity to water powers of unlimited capacity.

No finer health resort in the world. Has an elevation of 2,300 feet above sea level. Ores and Minerals in greatest profusion and variety.

IRON ORES.—Brown, Red and Magnetic, occupying 110 square miles of the county territory. Less than 10 square miles of these now yield annually over 130,000 tons of ore.

ZINC AND LEAD.—The largest deposits in the world. These mines supplied the armies of the Patriots of '76 with lead. The first lead mined in this county was in 1756.

SEMI-BITUMINOUS COAL.—Occupies 25 square miles of the county's territory. Limestone for fluxing and for lime in purest qualities known. The decomposition of which makes the most productive soil for grain and grasses.

SUPERIOR FIRE CLAYS are now being discovered.

MINERAL WATERS of great excellence, with established reputations of many years, such as Lithia, Bromide-Arsenic, Sulphur, Chalybeate and Alum.

Splendid Agricultural Facilities.

NATIVE BLUE GRASS, luxuriant growths of Timothy and Clover. Average yield of Wheat, 15 bushels to the acre. The highest yield of Corn to the acre, 105 bushels. Finest location for Creameries in the South.

The Timber Lands of Wythe County,

Unexcelled for the character, quality and production of its hard woods, such as White Oak, Hickory, Walnut, Poplar, Pine, Hemlock and Ash.

Large Forests of Car Lumber White Oak.

All Capitalists, Manufacturers and Farmers are cordially invited to come. Lands are cheap. Iron can be made as cheap as in Birmingham, from the finest ores in the world. The Farming Lands are the best all-round crop lands in the entire South.

For any further information, address

FRANK ST. CLAIR, Secretary County Committee,
Box 37, Wytheville, Va.

Roanoke. Virginia.

❖ THE MAGIC CITY OF THE SOUTH. ❖

Population in 1880, 400.

Population in 1888, 15,000.

Her Present Phenomenal. Her Past Remarkable. Her Inducements Unrivalled. Her Future Magnificent.
Climate and Health Unsurpassed. Pure Water. Sewerage Excellent. Surroundings Beautiful.

At the Junction of the Norfolk & Western, Shenandoah Valley and Roanoke & Southern Railways. 258 Miles from Norfolk, Va. 151 Miles East of Bristol.

Read the Proud Record of Roanoke's Industries, and be convinced that her Remarkable Progress is no less Substantial than Wonderful.

Roanoke Machine Works, valued at \$5,000,000, manufacturers of locomotives and other railroad equipments. Employing from 1,000 to 1,500 men.

Virginia Packing Company, capacity 4,000 cans per day.

Roanoke Water Works, capital stock \$350,000. Supplies water as clear as a crystal from a mammoth spring on Mill Mountain. Capacity for supplying a population of 100,000.

Roanoke Gas Company, capital \$130,000.

Three large Tobacco Factories.

Two Warehouses for the sale of leaf tobacco.

Diamond Ice Manufacturing Co., capital \$25,000.

Four Banks, with an aggregate capital of \$450,000.

Five Building Associations, with an aggregate capital of \$600,000.

Land and Improvement Companies, with an aggregate capital of \$700,000.

Virginia Steel Company, owners of extensive and valuable mineral properties in Southwest Virginia, are now preparing to construct a Bessemer Steel Plant at a cost of \$300,000.

Virginia & North Carolina Construction Company, capital \$500,000.

Virginia Company (formerly the Iron Belt Land, Mining & Developing Company), capital \$500,000.

Roanoke Car Axle Works, capital \$250,000.

Crozier Steel & Iron Company, cost of plant \$500,000; capacity 120 tons pig iron per day.

A Roller Flouring Mill, valued at \$15,000.

Virginia Picket & Wire Fence Co., capital \$25,000.

One Steam Mattress Factory.

One Cigar Factory.

One Box Factory.

Telephone System.

One Wagon and Buggy Factory.

One Sash, Blind and Door Factory.

Three Planing Mills.

Four large Brick Yards.

Alleghany Institute, cost \$20,000.

Four Hotels, capable of accommodating 500 guests. Hotel Roanoke cost \$80,000.

Two Daily Newspapers.

Three Weekly Newspapers.

Two large Steam Job Printing Establishments.

15,000 of the most wide awake and enterprising people in the South.

Roanoke is the southern terminus of the Shenandoah Valley Railroad. The northern terminus of the Roanoke & Southern Railroad (under construction.) The terminus of two divisions of the Norfolk & Western Railroad.

IN COURSE OF CONSTRUCTION.

THE ROANOKE ROLLING MILL.—This mammoth enterprise is just receiving its finishing touches, and in a few weeks will be turning out iron of every description.

THE ROANOKE STREET RAILWAY will begin very shortly to lay its tracks through the principal streets of the city. Their cars will be operated by the most improved equipment of steam motive power.

THE ROANOKE BRIDGE WORKS.—This enterprise promises to be one of the leading industries of our now busy city. Has already secured a site, all of the necessary stock has been taken, and proposes to have its plant completed by March, 1889. Will employ 500 skilled mechanics.

NORFOLK & WESTERN RAILWAY REPAIR SHOPS.—This company having recently made Roanoke the terminus of two divisions of its great railway system, will construct here at once the large repair shops, employing a large number of men.

PROJECTED ENTERPRISES.

Electric Lighting System, both arc and incandescent.

Cotton Mills. Chair Factory. Creamery.

Opera House to cost \$50,000.

Government Building to cost \$50,000.

Roanoke will very probably be the southern terminus of the Valley Branch of the Baltimore & Ohio Railroad, now completed to Lexington, 50 miles from Roanoke.

ROANOKE IS HEADQUARTERS FOR

The Norfolk & Western Railroad Co., which employs 800 clerks.

The Shenandoah Valley Railroad Co., which employs 75 clerks.

The Washington & Western Railroad Co.

The Roanoke & Southern Railroad Co. (now under construction.)

The Pocahontas Coal Co., the largest coal operators in the world.

And nearly all the mining companies operating in Southwest Virginia.

ROANOKE HAS BUILT

2,500 houses within the past six years. 200 to 250 are now (November, 1888) in the course of erection, among which are a splendid Fire Department Building, a Masonic Temple to cost \$25,000, a Y. M. C. A. Building to cost \$20,000. She has an elegant new Courthouse and Jail, Market House, Opera House and Public School Houses. She has twelve churches, representing nearly every denomination.

ROANOKE EXPENDED DURING 1888

\$16,000 for Public School Buildings.

\$25,000 for Sewerage.

\$25,000 for Street Improvement.

\$16,000 for Miscellaneous Public Work.

THE BONDED DEBT

of Roanoke is smaller than that of any other city of equal size in the South, being less than \$150,000. The city tax rate is proportionately low, being \$1.10 on the hundred.

Roanoke has a wholesale and retail trade, embracing 16 of the wealthiest, most productive and most rapidly developing counties in Virginia, and its wholesale trade extends into West Virginia, Tennessee and North Carolina.

Roanoke is the most prosperous city in Virginia, and in a few years will be the largest inland city in the State. When the census of 1890 is taken, her population will not fall far short of 25,000.

No man has ever yet lost money in Roanoke real estate. The tendency of value being constantly upwards as the city grows, and as the prospects of the city are brighter now than ever before in her history, it is reasonable to presume that prices will get still better. If you want to make an investment, no matter how small or how large, that will pay you handsomely, get hold of some Roanoke real estate.



The following industries and manufactories are much needed in Roanoke, and either or all can be profitably operated here, where facilities for their successful prosecution are unbounded and unrivalled: Wagon, Buggy and Carriage Works, Iron Works of all kinds, Stove Foundry, Broom and Bucket and Barrel Factory, Brewery, Iron and Wire Fencing, Iron and Terra Cotta Works, Brick Yards, Plumbers, Nails, Horse Shoes, &c.; Cotton and Oil Mills, Tanneries, Canning Establishments, Fertilizer Factory, Furnaces and Engine Works, Chair and Furniture Factory, Harness Makers, WHOLESALE HOUSES in all branches of business (city is well supplied with retail stores, but there is a fine field for wholesale business), Cigar and Cigarette Factories, Spoke and Handle Factory, Iron and Wood Pump Works, Steel Rails, Paint and Tool Works. A First-Class Restaurant is much needed, for which no better opening was ever offered. For further information address the following business firms of the city:

JAMES S. SIMMONS & CO.

R. H. GRAY & CO.

ROANOKE LAND & IMP. CO.

YEAGER & CAMPBELL.

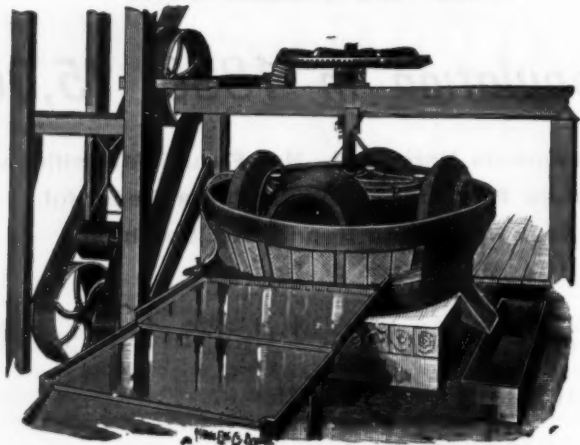
ASBURY GREIDER & CO.

J. R. HOCKADAY & CO.

WISWELL

Ore Pulverizer and Amalgamator

COMBINED.



The following testimonial from Mr. Marsden, of the firm of Farrel & Marsden, manufacturers of Stone Breakers and Ore Crushers, Ansonia, Conn., speaks volumes for the Wiswell Mill:

Wiswell Electric Mining Machinery Co.:

GENTLEMEN—After carefully inspecting your mill and seeing it in operation, I do not hesitate to say that it is one of the best, if not the best pulverizer and most complete gold-saving machine I have ever seen. Please accept congratulations for your success.

S. L. MARSDEN.

WE FURNISH A COMPLETE MILL FOR \$2,500, DELIVERED ON BOARD CARS.

FOR FURTHER INFORMATION ADDRESS

Wiswell Electric Mining Machinery Company,

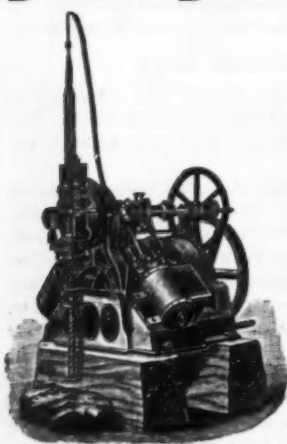
4 POSTOFFICE SQUARE,

A. A. REEVE, Treasurer.

BOSTON, MASS.

BUY THE BEST.

Bullock's Diamond Prospecting Core Drills,



Diamond Prospecting Drill.

For Surface or Underground Prospecting.
The Only Drills that will give an Accurate Record of every Strata Penetrated.

ALL DRILLS SOLD WITHOUT RESTRICTIONS.

Lane's Band Friction Hoisting Machinery

Drums from 2 Feet to 25 Feet in Diameter.

Improved Colliss Engines,

Slide Valve and Straight Line Engines,

Eclipse Rock Drills, Air Compressors,

Channeling and Quarrying Machines.

M. C. BULLOCK MFG. CO.

No. 138 Jackson Street,

Write for what you want. CHICAGO.

Cable Address: BULLOCK, CHICAGO.

SEND FOR CIRCULAR



PATENTED
June 27, 1889.
Dec. 19, 1893.
Oct. 9, 1895.
June 9, 1898.

THE IMPROVED CORNISH ROLLS,

BY RYERSON D. GATES,

50 South Clinton Street, CHICAGO, ILL.

SIMPLE, DURABLE, COMPACT, DUSTLESS,

AND A

FINISHED PRODUCT
DIRECT FROM THE MACHINE.

The Best Ore Granulator

FOR

LEACHING AND CONCENTRATION
IN THE WORLD.

SULLIVAN DIAMOND

Prospecting Core Drills.

THE MOST RELIABLE AND
SATISFACTORY MADE FOR PROSPECTING FROM THE
SURFACE OR UNDER GROUND.

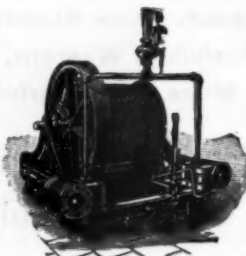


RAPID! ACCURATE! ECONOMICAL! "N" Drill—Capacity 2,000 feet.

SPECIALLY ADAPTED TO SOUTHERN COAL AND IRON FORMATIONS.

Hand or Power Drills,

Capacities 300 to 4,000 feet. All sizes in stock.
SEND FOR CATALOGUE.



**Hoisting and Hauling Engines,
Exploring Hoists, Steam
Pumps, Boilers.**

Underground Haulage by Wire Rope a specialty.
Estimates furnished on complete plants. Contractors for

DIAMOND PROSPECTING CO.

74 and 76 W. Lake Street,

Eastern Office, 18 Broadway, New York.
Cable Address, "DIAMOND, CHICAGO."

CHICAGO, ILL.

Gates Rock and Ore Breaker

CAPACITY IN TONS OF 2,000 POUNDS.

Size 0—2 to 4 tons per hour	Size 4—15 to 30 tons per hour
"1—4 to 8 "	"5—25 to 40 "
"2—6 to 12 "	"6—30 to 60 "
"3—10 to 20 "	"7—40 to 75 "
	"8—100 to 150 "

Passing 2 1/2 in. ring, according to character and hardness of material.

Great SAVING IN POWER. Adjustable to any Degree of Fineness.

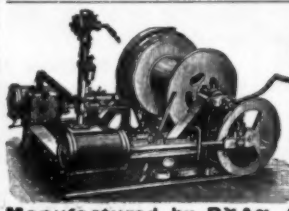
The principle involved in this Breaker acknowledged to be the greatest success ever introduced into Stone Breaking Machinery.

Send for Catalogue, containing over 500 references of Contractors, Miners, Railway Companies, Cement Makers, etc.

GATES IRON WORKS,

50 S. CLINTON ST., CHICAGO, U. S. A.

12 Cortlandt St., New York, U. S. A.
73a Queen Victoria St., E. C. London, Eng.

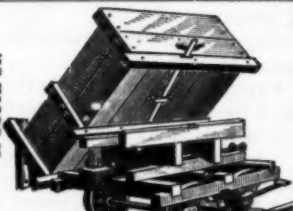


Manufactured by RYAN & McDONALD,

Shops and Warehouses, WATERLOO, N. Y.

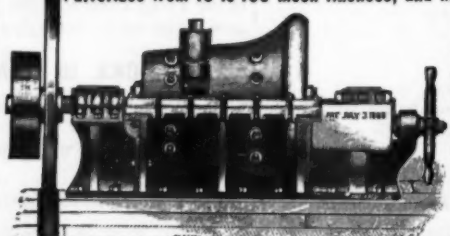
Send for Illustrated Catalogue and Prices.

Contractors' and Steam
Shovel Cars, Derrick Fir-
tures, Winches, Hoisting
Engines, Hoisting Drums,
Stationary and Portable
Engines, Boilers, Stand
Pumps, etc.
OFFICES:
WATERLOO, N. Y.
BALTIMORE, D. C.
11 SOUTH ST.



The Greatest Pulverizer in the World.

Pulverizes from 10 to 160 mesh fineness, and has a capacity of 1 to 3 tons per hour.



Better than ball mills for pulverizing
Phosphates, Plumbago, Cement, Foundry
Facings, Iron for Paints, Gold and Silver
Ores, Flint Rock for Glass, Coke for Car-
bons, Paints, Asphalt Materials, Feldspar,
Red Ochre, Sandstone, Limestone and
Calcined Lime. Correspondence solicited.
Send for samples of different products.

F. H. MOORE,
Manufacturer,

48 City Hall Bldg., Cleveland, O.

BACON

Winding Engines.
Furnace Hoists
Mine Hoists.

(With or Without Boilers.)

"Mining Plants," Concentrating
Works and Dredging Machinery
Furnished Complete.

COPELAND & BACON,

85 Liberty Street, New York.

535 Arch Street, PHILADELPHIA.

Manufacturers:—Cotton Magnetic Iron Mills, Brewster's, N. Y. Crown Point Iron Co., Crown Point,
N. Y. Baldwin Iron Co., 35 Broadway, New York. San Island Chemical Co., Beaufort, S. C.

DAVIDS' PATENT DISINTEGRATING MILL

For Bones, Phosphates, Tankage, Ores, Clay, Fish Scrap, Salt Cake, &c.
Fertilizer Machinery, Mixers' Rolls, Breakers, &c., &c. Marine
Railways, Clay Temperers. Send for Catalogue.

JAMES MURRAY & SON, 102 to 108 York Street, Baltimore, Md.

Baltimore Mill Furnishing Works.

B. F. STARR & CO.

BALTIMORE, MD.

Manufacturers of Mill Stones for all purposes. Portable Mills, Smut Machines, Roller Mills, etc. Shafting, Pulleys, Gearing and General Mill Machinery. Importers of Bolting Cloths and General Mill Furnishings. The Leading Mill-Furnishing House on the Atlantic Seaboard.

RICHMOND CITY MILL WORKS

RICHMOND, INDIANA.

CORN & COB CRUSHERS,

FRENCH BUHR MILLS,

PULLEYS, SHAFTING, BELTS, &c.

EVERY MILL GUARANTEED.
SEND FOR DESCRIPTION AND PRICES.

Complete Mill Outfits, Rolls or Buhrs.

Wardwell Stone Channeling

AND

Quarrying Machine.

WILL pay for itself in a short time in reduced cost of getting out Stone. Has no equal for efficiency and economy of operation. Pronounced by those who have used it the best machine for the purpose in the world. Send for illustrated catalogue, with full descriptions and letters from parties now using the machines.

Steam Stone Cutter Co.

RUTLAND, VERMONT.

**THE BREWIS BRICK PRESS**

Patented August 18, 1885, January 8, 1889.

FOR MAKING PERFECT BRICK—

—FROM DRY OR SEMI-DRY CLAYS.

Machines Warranted and sold to responsible parties on thirty days' trial. Weight of two-mould machine, 14,000 pounds. Capacity of two-mould machine, 8,000 to 16,000 perfect brick in ten hours. Send for circulars and prices to sole licensed builders.

CHAS. KAESTNER & CO.

Machinists, Founders, Engines, Shafting, Pulleys, &c

303-311 S. CANAL STREET, CHICAGO, ILL.

WE TEST ALL CLAYS SENT PREPAID FREE.

If you are interested in

Brick OR TILE MACHINERY

WRITE TO **H. BREWER & CO. No. 10 MILL ST. TECUMSEH, MICH.**

CATALOGUES FREE

BRICK-MAKER'S SUPPLIES

TRUCKS, MOLDS, BARROWS, MACHINES, FOUNDRY WORK

G. W. RAYMOND & CO. DAYTON, O.

CAPACITY OF HORSE-POWER MACHINE, 20,000 PER DAY.

Capacity of STEAM-POWER MACHINE

35,000 PER DAY.

Henry Martin Brick Machine Mfg. Co.

LANCASTER, PA., U. S. A.



SEND FOR CATALOGUE.

BRICK • MACHINERY.

THE NEW

QUAKER

is the best and most reasonable in price of any first-class Brick Machine made. Send for illustrated catalogue, giving full particulars and prices before purchasing.

Both Horse and Steam Machines.

PUG MILLS, MOLD SANDING MACHINES, MOLDS, BARROWS, AND ALL BRICKMAKERS' SUPPLIES.



Fletcher & Thomas, Indianapolis, Ind.

Chambers' Brick Machinery

10,000, 25,000, 50,000 per day Capacity.

GUARANTEED AND FURNISHED ON THIRTY DAYS' TRIAL.

CHAMBERS BROS. CO., Philadelphia, Pa.



BALDWIN LOCOMOTIVE WORKS

ESTABLISHED 1831.



ANNUAL CAPACITY 800.

Locomotive Engines, Locomotives for Logging

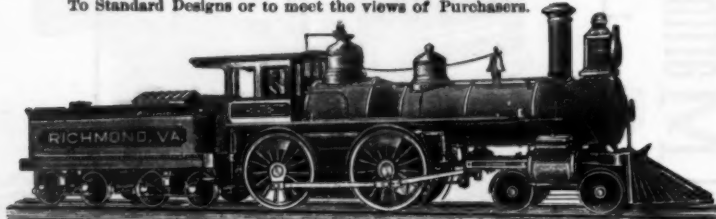
Adapted to every variety of service, and built accurately to standard gauges and templates.

RAILROADS AND SUGAR ESTATES.

STEAM TRAMWAY MOTORS, MINE LOCOMOTIVES.

Burnham, Parry, Williams & Co., PROPRIETORS, 500 N. BROAD STREET, Philadelphia, Pa.
In writing, please refer to Manufacturers' Record.Established in 1865. **Richmond Locomotive & Machine Works, RICHMOND, VA.**Builders of **LOCOMOTIVES** for every variety of service.

To Standard Designs or to meet the views of Purchasers.



Motors for Street Railways, Tram Roads and Mines. Stationary Engines for heavy duty. Boilers, Standard or Special. Send for Catalogues, Specifications and Estimates.

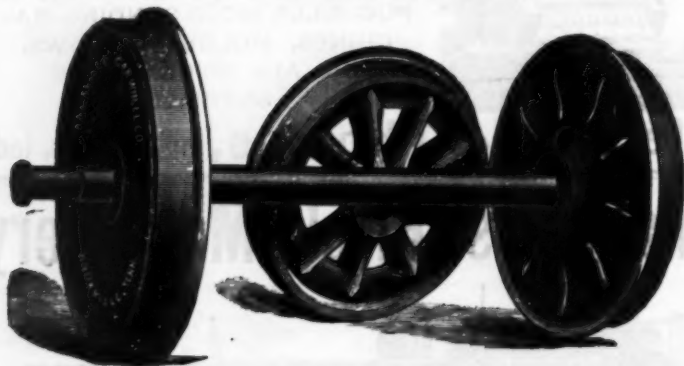
Knoxville Car Wheel Co.

—KNOXVILLE, TENN.—

Manufacturers of All Kinds of

CHILLED WHEELS

For Railroads, Street Railroad, Ore and Coal Mines, and Lumbermen.



Steam Hammers,
Steam Hoists,
Foundry Cupolas,
Derricks, Crabs,
Horse Powers,
Shieves, Drill Heads,
Gearing, Pulleys,
Bolts of all sizes,
Locomotives and Engines
Repaired and Indicated.

CORRESPONDENCE SOLICITED.

Steel and Iron Boilers,
Guild's Automatic
Boiler Cleaner,
Car and Locomotive Castings,
Soft Iron Castings of all kinds.
Heavy Castings a specialty
Wheels mounted on Axles if
desired, with Oil Boxes
and Bolts.

MENTION THIS PAPER

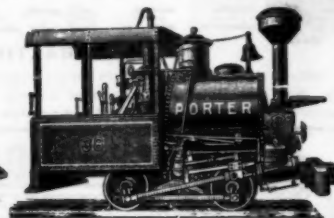
EMPLOYERS WILL PREVENT LOSS
BY ACCIDENTS TO
WORKMEN BY INSURING WITH

Employers' Liability Assurance Corporation.

Agent, G. W. S. HALL, Baltimore
Firms with pay rolls of
over Sixty Million Dollars now protected

H. K. PORTER & CO.

PITTSBURGH, PA.

LIGHT LOCOMOTIVES, all gauges of track, for Passenger and Freight
naces, Steel Mills, Coke Ovens, Contractor's Works, Plantations, &c.**NOISELESS STEAM MOTORS**, all sizes and patterns, adapted to
steep Grades and Sharp Curves,
and Noiseless and Smokeless. Cheaper, more Reliable and Efficient, and Less Objectionable than
Electric or Cable Systems.

THESE COTS CHANGED EACH INSEKTIION.

ALL WORK STEEL FITTED and built to duplicate system. EXTRA PARTS kept in Stock.
MEMORANDUM—LOCOMOTIVES AND MOTORS of several sizes, wide and narrow
gauge kept on hand for immediate shipment, or under construction for quick shipment.
Illustrated Catalogue, Photographs, Prices, &c., on application, mentioning this paper.

Adams & Price, Locomotive & Machine Works,

MANUFACTURERS OF

LOCOMOTIVES FOR POLE ROADS AND TRAMWAYS.

All kinds of Logging and Mining Cars. Side Dump Cars a specialty. Pig Iron Cars,
improved. Contractors for all classes of Light and Heavy Castings.

Send for circulars. City address,

108 Vauxhall Street, NASHVILLE, TENN.

JOHN STEPHENSON COMPANY NEW YORK

TRAMWAY CARS OF EVERY DESCRIPTION
LIGHT, ELEGANT, DURABLEBYRD WARWICK,
President.J. T. ANDERSON, Sec'y and Treas.
(Late with Tredegar Co.)R. W. JEFFERY, Supt.
(Late with Tredegar Co.)

The Richmond Standard Spike Co., Richmond, Va.

Manufacturers of Dock, Ship and Railroad Spikes.

STEEL RAILS

PENNSYLVANIA

Standard Sections
Light Sections
Street RailsFish Plates,
Frogs, SwitchesSTEPHEN W. BALDWIN
SALES AGENT

16 lbs. Full Size.

STEEL COMPANY

50 to 80 lbs. per yard
16 " 45 " " "
30 " 88 " " "
Bolts & Nuts,
and Crossings.NO. 2 WALL STREET
NEW YORK N.Y.

DETROIT FOUNDRY EQUIPMENT CO.

DETROIT, MICH.

MANUFACTURING

Whiting's Improved Car-Wheel Foundry Plant, Improved Cupola,
Improved Overhead Steam Crane, Improved Car-Wheel Chills,
Improved Transfer Trucks, Improved Device for
Operating Foundry Ladles, Improved
Reversible Friction Gearing.

Steam and Power Cranes Castings of all Descriptions, Ladles, &c.

NILES TOOL WORKS,

HAMILTON, OHIO.

MACHINE TOOLS

COMPLETE EQUIPMENT FOR

Railroad, Car, Locomotive and Machine Shops.

LATHES, PLANERS, DRILL PRESSES,

BORING AND TURNING MILLS,

Etc., Etc., Etc.

We invite correspondence. Photographs mailed on application.

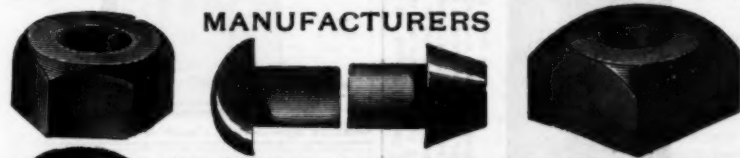
New York—98 Liberty St.

Philadelphia—705 Arch St.

Chicago—Phenix Building.

HOOPE & TOWNSEND,

MANUFACTURERS



MACHINE AND CAR BOLTS,
KEYSTONE BOILER RIVETS,

MADE IN SOLID DIES.

COLD PUNCHED, CHAMFERED, TRIMMED &
DRILLED SQUARE & HEXAGON NUTS.

Bridge Rivets,

Split and

Single Keys.

WASHERS,

Tank and Coopers'

RIVETS.

PHILADELPHIA, PA.

Build & Repair Your Machinery

BY USING

Engine Lathes, Planers,
Chucking Lathes, Hand Lathes,

MACHINE TOOLS GENERALLY

MANUFACTURED BY

LATHE & MORSE TOOL CO.

Worcester, Mass., U. S. A.



Phoenix Iron Works,

W. H. THOMPSON, Proprietor.

Manufacturer

of

HAND AND POWER CRANES,

For Forges, Pipe Foundries, Rolling Mills, Wire Works, Foundries, Machine Shops, Docks and
Mines. Locomotive and Pivot Cranes and Overhead Traveling Cranes.

Send for Catalogue.

Wasson and Superior Sts., Cleveland, O.

THE BILLINGS

HARTFORD
MANUFACTURERS OFDIES MADE IN 5
THREADS FROMTO 2 INCHES V
U.S. STANDARD AND

DROP FORGED

& SPENCER CO.

CONN.
SCREW PLATES ANDSIZES CUTTING
1/4 OF AN INCHTHREAD. ALSO
WHITWORTH THREAD

OF BAR STEEL

ESTABLISHED 1832 ON PRESENT PREMISES.

The Best

—IS—

ALWAYS

—THE—

Cheapest.



Therefore

BUY OUR

COLOPHINE

—OR—

Perfect Oils

The above are our specialties in MACHINERY OILS, and are the best oils for
the price manufactured. We can give you anything in the OIL LINE, any grade, at
the very lowest prices. Correspondence solicited.

WM. C. ROBINSON & SON,
MANUFACTURERS AND DEALERS IN OILS,

217 South Street Baltimore, Md.

BUNDY RADIATORS



Consist of LOOPS, a BASE and a
Top in the simplest form pos-
sible in any Radiator.

— 13,000,000 —

SQUARE FEET NOW IN USE,

which are heating 10,000 of the largest and
finest buildings in the country, which
should prove beyond a doubt that the
BUNDY RADIATOR is the best made

MANUFACTURED BY

A. A. GRIFFING IRON CO.

662 Communipaw Avenue, Jersey City, N. J.

Send for new Catalogue.

BARNES' PATENT UPRIGHT DRILLS,

20 to 22 inch swing, with both
worm and lever feed, self
feed and back-gear.

Barnes' Patent Engine
Lathe,

18 inch swing, 6 foot or 8 foot
bed.

These machines are made a
specialty in our factory.
They have advantages not
found in other machines in
this line.

It will pay parties desiring to purchase or know more about these machines to
send for full description and prices to

W. F. & JOHN BARNES' CO., No. 291 Ruby St., Rockford, Ill.
THOMAS K. CAREY & BRUS., 21 S. Charles St., Baltimore Agents.



Barnes' Water Emery Tool Grinder. Has no Pumps.

No Valves.

No piping to supply it
with water.

It has nothing to get
out of order; is always
ready for use.

It is as easily man-
aged as a grindstone,
and will give vastly
better results. It will
be sold subject to ap-
proval.



STEEL CASTINGS

From 1-4 to 15,000 lbs. Weight.

True to pattern, round, solid, free from blow-holes, and of un-
equalled strength. Stronger and more durable than iron castings in
any position or for any service whatever. 20,000 CRANK SHAFTS
and 20,000 GEAR WHEELS of this steel now running prove this.
CRANK SHAFTS and GEARING specialties. STEEL
CASTINGS of every description. Send for circular and prices to

CHESTER STEEL CASTINGS CO.

Office, 407 Liberty St., Philadelphia. Agents, Wills, Clark, & Co.

EAGLE IRON WORKS

DETROIT, MICH.
MANUFACTURERS OF
VERTICAL AND HORIZONTAL
ENGINES, SHAFTING, PULLEYS
AND HANGERS.

BOILERS
OF ANY DESCRIPTION.
CASTINGS & FITTINGS
OF ALL KINDS.

Satisfaction guaranteed. Correspondence solicited.
C. J. O'HARA, General Manager.

THE CELEBRATED Baxter Steam Engine and Boiler COMBINED.

Greatly improved and reduced
in price.

The Most Safe, Simple and
Economical Engine for
Light Work Extant.

Sizes from 2 to 10 horse power.

Send for new catalogue.

FRANK TOOMEY,
131 NORTH THIRD STREET, PHILADELPHIA, PA.

THE Bray & Nickerson AUTOMATIC GAGE GLASS

Positive in Action.
Simple in
Construction.
Easily Attached
and Adjusted.
Thoroughly Tested.
Guaranteed in
Every Particular.
These glasses are
fitted with Patent
Automatic Valves set
with the boiler,
which will INVA-
RIABLY close INSTANT-
LY on breaking the
glass, with stuffing
boxes for glass tubes
which permit broken
glasses and packing
to be removed with-
out delay, and which
will not cause the
glass to break by its
expansion, and with
first class Valves with
Babbitt seats and
stuffing boxes with
glands. These valves
may at any time be
re-ovoid to reset
without team is on.

Agents
Wanted.

Bray & Nickerson Automatic Gage Glass Co.
34 Oliver Street, Boston.

WIRE & WIRE GOODS.

Wire Cloth, Rope, SCREENS for
Coal and Ores. Barbed and
Plain Fencing Wire. Bank
and Office Railings.

Artistic Work a Specialty.
Send for catalogue and mention this paper.

Roller & Detachable Chain Belting

Detachable in every Link
FOR IMPROVED
ELEVATORS,
Conveyers,
AND
DRIVING BELTS.
FOR HANDLING
Coal, Ores, Grain,
CLAY, BRICK, &c.

The JEFFREY MFG. CO
121 W. STATE ST.,
Columbus, Ohio.

Also Manufacturers of the
Large Coal Mining Machines
and Rotary Power Coal Drill.
Send for Illustrated Catalogue.

SHEPARD'S New \$80 SCREW-CUTTING FOOT LATHE
Foot and Power Lathes, Drill
Presses, Scroll Saw Attachments,
Chucks, Mandrels, Twist Drills,
Dogs, Calipers, etc. Lathes on
payment.
Send for catalogue of Outfits
for Amateurs or Artisans.
Address **N. L. SHEPARD, Agent,**
134 E. 2d Street, Cincinnati, Ohio.

Wood-Working Machinery

For Furniture, Chair
and Cabinet Factor-
ies, Planing Mills,
Box Shops, Agricul-
tural, Car, Saw,
Door and Blind
Works and General
Wood Workers.

ADDRESS

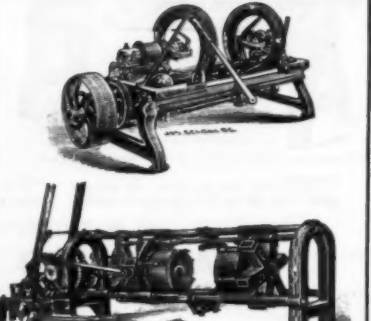
Rollstone Machine Co.

44 Water St., Fitchburg, Mass.

E. & B. HOLMES,

BUFFALO, NEW YORK,
MANUFACTURERS OF

Barrel Machinery.



Chambers Patent Barrel Heater.
Capacity, 300 tight or 500 slack barrels per day.
The best Heater made.

E. & B. HOLMES, Sole Agents.

THE Sigourney Tool Co.

HARTFORD, CONN.



One, Two and Three
**Spindle
DRILLS.**
Sensitive,
STRONG
—AND—
Workmanship
UNEQUALLED.

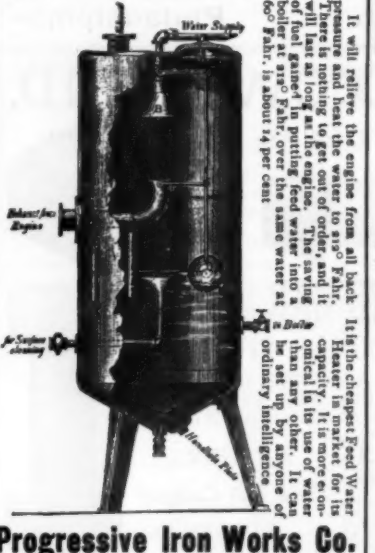
Special Machinery, Tools, Models, &c.
Built by Day or Contract.
THOS. E. CARVEY & SONS, AGENTS, BALTIMORE.

WANTED—Steam users to know that WEBSTER'S
"VACUUM" FEED WATER HEATER and PURI-
FIER utilizes exhaust steam, for winter and summer use,
to the very best possible advantage, as explained in pam-
phlet, for which address **WARREN WEBSTER & Co., 491**
N. Third Street, Philadelphia, Pa.

Kroeschells & Bourgeois' PATENT FEED WATER HEATER.

For Heating Water by EX-
HAUST STEAM. We guar-
antee to heat the feed water
to within a degree or two of
temperature of the exhaust
steam. The great trouble with
other heaters, caused by the
early and frequent corroding
of Flues is obviated in our
Heater—the material of tubes
being the BEST OF BRASS.
No back pressure to engine.
All sizes from 30 to 1,000 h. p.
and larger. Saves boiler re-
pairs. Saves fuel.
Office and Works:
4 to 12 Michigan St., Chicago, Ill.

Ewer's Feed Heater and Purifier.



Progressive Iron Works Co.
251 and 253 Green Point Ave.
BROOKLYN, N. Y.

The Wainwright Corrugated Copper Tube Heater. Over 60,000 in use.

Highest results ob-
tained with exhaust
steam alone without
back pressure.
The most care-
fully constructed
Heater in the
market.
Coil, Vertical
and Horizontal
Straight Tube Heat-
ers. Heaters for
compound Condens-
ing Engines. Ex-
pansion Joints, Fil-
ters and Condensers.
Prices very low.
Heaters construct-
ed of Cast Iron and
Steel Shells, Cop-
per Tubes, Brass
Connections. No
Wrought Iron to
rust out. Send
for new illustrated
catalogue.

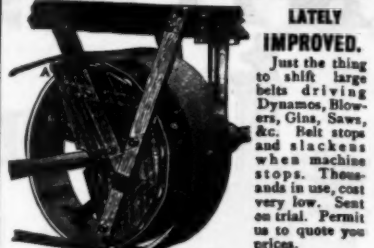
THE Wainwright Mfg Co OF MASS.

Factory, Medford,
34 Oliver St., Boston.

TAPER-SLEEVE PULLEY WORKS

211 W. 12TH ST.
ERIE, PA.
Manufacturers of
Taper-Sleeve Wood
Belt Pulleys, Ad-
justable Dead Pulleys,
Friction Clutch Pul-
leys, Friction Clutch
Couplings, Wood
Pulleys in Halves,
Taper-Sleeve and
Compression Cou-
plings, Shafting, Post
and Drop Hangers.
Correspondence so-
licited.
Friction-Clutch Pulley.

The WELLINGTON BELT HOLDER.



W. R. SANTLEY & CO. Wellington, Ohio

Grinding & Polishing Machinery

In all sizes and every description. Send for
catalogue. Correspondence solicited.

DIAMOND MACHINE CO.



PROVIDENCE, R. I.
Southern Agts.—T. K. CAREY & BROS., Baltimore.

The Belden Machine Co.

NEW HAVEN, CONN.



Rome Foundry & Machine Works,

ROME, GA.

Manufacturers of the well known

DAVIS DOUBLE TURBINE

Water Wheel



Beyond all question
one of the best
wheels on the mar-
ket, and is fully
guaranteed.
Send for Illustrated
Catalogue and Price List.

**Portable & Stationary Engines
AND BOILERS,
Grist & Flouring Mill Machinery.**

THE GREAT
PORT DEPOSIT EXCURSIONS.
Will begin June 14.
THE NEW IRON STEAMER TOLCHESTER
EVERY FRIDAY AND SUNDAY
AT 8 O'CLOCK A. M.
ROUND TRIP 25 CENTS.
GOOD MEALS. GOOD MUSIC.
100 MILES OF THE MOST BEAUTIFUL
SCENERY AND NOVEL SIGHTS.
That can be seen from the decks of a steamer
yet on these trips. They are worth twice
as much as we charge. The opportunity is
yours. These Excursions will begin by
the **TOLCHESTER** on

ASSIGNEE'S SALE.

Under and by virtue of the power vested in me by a deed of general assignment made and executed by the

Nashville Iron, Steel & Charcoal Co.

to me, for the equal benefit of all its creditors on the 23d day of January, 1889, and duly recorded in the Register's office of Davidson county, Tennessee, in book 116, page 571, et seq., to which reference is here made, I will sell, commencing at 11 A. M. on

TUESDAY, JULY 2, 1889,

on the premises, certain property of said Nashville Iron, Steel & Charcoal Co., described as follows, to-wit:

A tract of land lying in the Twelfth and Thirteenth Civil Districts of said county, and in the town of West Nashville, containing forty acres, more or less.

Together with all the improvements thereon, consisting in the main of the following:

Two blast furnaces, 12-foot bosh and 60 feet high.

Four hot blast stoves, 16x55 feet.

Four independent Babcock & Wilcox boilers, with 5,516 square feet of heating surface.

Four additional 2-flue, 40 feet x 50 inches, 18-inch flues boilers, new, made by Erie City Iron Works.

Two 84 by 43-inch blowing engines, with 36-inch steam cylinders.

In fact, all fixtures which cover the total plant and buildings, including two cast-houses completed, and all patents and licenses covering devices embraced in the construction. Detailed description will be furnished on application.

Also a complete charcoal and wood alcohol plant, consisting of 42 charcoal kilns, a large wood alcohol manufactory, including all piping, tracks and appliances necessary for the manufacture of charcoal and wood alcohol.

Also 29 tenement houses and one store-house, and railroad tracks and switches, stable and blacksmith shop.

Also an elevator and hoist engines on river bank, and all patents and licenses for the manufacture of charcoal and wood alcohol under what is known as the "Pierce Process," for Davidson county, Tennessee.

TERMS OF SALE:

One-fourth cash, and balance on 6, 12 and 18 months' time, with interest-bearing notes of the purchaser and personal security for the deferred payments of purchase money. Said sale will be free from the equity of redemption, but subject to the following liens upon the property:

1. \$100,000 of the first mortgage bonds issued by said company on the first day of April, 1888, and to mature and be payable on the first day of April, 1908, payable, principal and interest, in gold coin.

2. Subject to the rights and liens of the holders of \$50,000 of second mortgage bonds issued by said company on the first day of August, 1888, and to mature and be payable on the first day of August, 1889. Said bonds bear interest at the rate of 6 per cent. per annum.

3. Mechanics' liens for the sum of \$25,201.27 and interest.

Of the amount due for mechanics' liens \$6,300.76 is to the Erie City Iron Works for four boilers. Said company have the right to enforce its lien for said amount or reclaim the boilers, at its option, and the sale of said boilers is subject to its rights.

4. Subject to the lien of State and county taxes for 1888 and 1889.

This plant is new, having been operated only one year, and was indebted only on capital account and not revenue account.

ROBERT L. MORRIS,

ASSIGNEE,

McGavock Block, Nashville, Tenn.

J. H. PRATT,

Analytical Chemist,

Laboratory 1826 Third Ave., Birmingham, Ala.

Analyses of Ores, Slags and Coals carefully made. Reports on properties, etc.

DIRIGO Engine and Machine Co.

PORTLAND, ME.

MANUFACTURERS OF

HIGH-GRADE

Automatic and Throttling Engines

STEAM PUMPS, etc.

AND DEALERS IN

Boilers, Water Wheels, Saw Mill, Wood-

Working, Stave and Barrel Machinery.

25 H. P. Engine, all complete, \$250

50 " " " " 450

We can quote lower prices than any other firm in the United States on all kinds of machinery in our line, owing to our excellent shipping facilities.

We can give you low rates of freight, and will quote prices on machinery delivered at your nearest railroad station.

Write us in regard to your wants, and we will save you money.

BRADLEY'S POWER HAMMERS

Established 1832. The BEST in the World run by Bel

OVER 1500 IN USE

BRADLEY'S HEATING FORGES

Indispensable in all shops to keep

BRADLEY'S CUSHIONED HAMMERS

and men fully employed and reduce the cost of production.

BRADLEY'S HEAVY COAL HEATING FORGE. BRADLEY'S LIGHT COAL FORGE.

BRADLEY & CO. SYRACUSE, N.Y. 65 Murray St. NEW YORK. 98 Southbury St. BOSTON, MASS.

GEM Wire Coat and Hat Hooks.

PATENTED.

STRONG AND DURABLE. Easily Put up OR REMOVED.

Made of a single piece of wire with a screw thread on one end.

SIZES: 2, 2½, 3 AND 3½ INCHES.

MANUFACTURED BY

VAN WAGONER & WILLIAMS CO.

NEW YORK.

FOR SALE BY

WM. H. COLE & SONS, Baltimore, Md.

HARALSON & LOGWOOD, Manufacturers' Agents and Dealers in

Pumps, Engines & Boilers,

Wood and Iron Working Machinery, and General Machinists, Mill and Plumbers' Supplies.

Write for Prices. FLORENCE, ALA.

Finest Water-Power in the South FOR \$10,000.

Original Cost about \$130,000 and Locks and Masonry in Perfect Order, 630 Acres of Land Included.

A Magnificent Opportunity for a Profitable Investment.

"Lowell of the South."

Synopsis of Civil Engineer Dwight's Report on Fishing Creek Canal.

At the confluence of the Catawba river and Fishing creek, in Chester county, S. C., a canal unites the two streams, affording some of the finest factory sites in the United States.

Length of Canal.—The length of the canal to lower locks on Fishing creek, on Mrs. Boylston's land, is 1½ miles.

First Factory Site.—100 feet from the river there is a fall from where the canal begins of 24 21-100 feet. Here there is a most eligible site for factory of any dimensions and capacity.

Second Site.—Only ¼ of a mile further down is found another admirable seat, with available fall of at least 30 feet, with outflow into Fishing creek.

Third Site.—From level of upper reach of canal to surface of Fishing creek there is a fall of 38 feet 6½ inches, constituting a truly magnificent power. Quite a moderate amount of grading would give room for buildings worthy of this superb site.

Fourth Site.—At the end of the canal, ½ of a mile from first lock, are a flight of locks with fall of 33 feet ¼ inch from canal to surface of Fishing creek. This situation is singularly favorable for factory buildings of enormous dimensions and capacity, all above overflow.

Locks.—There are 6 locks of superb construction, built in the most masterly style of cut stone laid in cement, and as perfect and complete as when the builders left them 60 years ago.

First Locks.—The first locks have two lifts: 8 feet 8 inches and 6 feet 11 inches, giving a fall of 15 feet. Length 203 feet.

Second Locks.—One-third of a mile below first locks are second flight of 4 lifts: 8 feet 11 inches, 8 feet 1 inch, 8 feet and 8 feet ¼ inch, making a total fall from canal to the surface of Fishing creek of 33 feet ¼ inch. Length 354 feet.

Quantities and Value of Work Done Upon the Canal.—There are upon the entire canal at least 4,000 cubic yards of masonry, most of which is of the finest quality. Every detail of construction shows intelligence and skill. The canal could not have cost the State less than \$100,000, and measured by similar works, \$130,000.

Building Materials.—Unlimited quantities of finest granite lie exposed most eligibly for quarrying, and in close proximity to all the mill sites, so that the entire canal and improvements can be built upon Mrs. Boylston's lands, and all building materials obtained for any kind of masonry within her boundaries.

Railroad Facilities.—From Fort Lawn station, on the Cheraw & Chester Railroad, to the canal is 5 miles—an unbroken ridge. Fort Lawn is 20 miles from Chester Courthouse and 8½ miles from Lancaster.

Horse-power.—Estimated by Mr. Swan's figures, which are a low estimate, the maximum horse-power with storage is 15,600. In conclusion I may say that you possess one of the most beautiful and valuable water powers that I have ever seen. Signed C. S. DWIGHT.

Since this report the legislature of South Carolina has given Mrs. Boylston the entrance on the Catawba river, with dam, &c., in addition to their gift of the entire canal on her place. The engineer says the first site can be utilized without incurring expense of opening entire canal at present.

THE WHOLE WATER-POWER, from dam on the Catawba to flow on Fishing Creek, is owned by Mrs. S. A. Boylston, of Winnsboro, S. C., and entirely unencumbered. She offers it for sale within the next sixty days for \$10,000, including 630 acres of land, through which it runs.

For further particulars, address

MRS. A. S. BOYLSTON,

WINNSBORO, S. C.

STARTING SEVERAL NEW ENTERPRISES—NEW BIRMINGHAM, TEX., June 16, 1889.—I intend to commence building my bottling shop in a week or two, and would like estimates; and will also put in a roller grist, say 400 bushels capacity per day, and would like estimates sent for the whole outfit—engine, boiler, mill, roller and corn cleaner. An ice factory will be put here, but I am not certain that I will be the owner, but would like to have estimates on a 3-ton and 5-ton machine. W. B. CRAWFORD.

ELECTRIC LIGHT PLANT—FLORENCE, S. C., June 18, 1889.—The Florence Electric Light & Power Co. has been chartered, with a capital stock of \$10,000. Will be working by fall. STARR.

IMPROVING LUMBER MILL—PORTIA, ARK., June 21, 1889.—This company propose to put into the mill lately bought of S. L. Hayne & Co. a full line of new and improved saw mill machinery; also to add a fully equipped planing mill to the plant. Will add three new 10-flued boilers and 20x24-inch engine to horse power. NORTH ARK LUMBER CO.

CONTEMPLATE STARTING BARREL FACTORY—LEXINGTON, N. C., June 22, 1889.—I am thinking of going into the barrel business some time soon, and will need machinery for the business. O. L. HUFF.

TO BUILD SPOKE AND HANDLE FACTORY, PETERSBURG, IND., June 19, 1889.—We expect to very soon erect a spoke and handle factory in the South, either Columbus or Atlanta, Ga. We are as yet not positive what point, but will determine that about 1st of July. We need machinery. J. A. & W. A. ROUSH.

CONTEMPLATE BUILDING WATER WORKS, BASTROP, TEXAS, June 18, 1889.—The Bastrop Improvement & Investment Co. was chartered June 11, 1889, capital \$100,000, with J. C. Buchanan, president, and A. C. Erhard, vice-president. It is intended to build houses and loan money; also to erect water works and probably some other enterprises in the near future.

D. P. JOHNSON, Secy.
CONTRACTED TO BUILD RAILROAD—EASTON, MD., June 23, 1889.—We have the contract to build the Baltimore & Eastern Shore Railroad from the Eastern Bay to Salisbury, and hand over same when built complete in every detail for operation. We shall commence active work on or before July 1st and push construction as speedily as possible. GODEFFROY & HOW.

WILL BUILD ICE FACTORY—GREENVILLE, ALA., June 20, 1889.—I want to buy machinery for an ice plant at an early day and want prices for same. WM. R. MARTIN.

BUILDING WOOD-WORKING FACTORY—WILKESBORO, N. C., June 16, 1889.—We are now erecting factory for manufacturing sash, blinds and doors, and for preparing all kind of material for building purposes. The business will be carried on under the name and title of the Wilkesboro Manufacturing Co. J. G. HACKETT.

COTTON MILL TO BE BUILT AT DENISON—DENISON, TEXAS, June 20, 1889.—The Thomson-Houston Electric Co. are to put in an incandescent plant. We shall later buy boilers, engines, elevators and cotton mill machinery.

DENISON LAND & INVESTMENT CO.

\$200,000 HOTEL TO BE BUILT—HOT SPRINGS, June 20, 1889.—The Park Hotel Co., Ed. Hogabroom, president and builder, will build hotel at cost of \$200,000. Will purchase furniture, steam heating apparatus, laundry machinery and bath-house outfit, iron work, electric light, elevators. E. H.

FORT PAYNE, ALA.

An Interview with Mr. A. S. Loventhal, of Birmingham, on the Prospects of this Pet of New England.

Two Grand Palatial Hotels Soon to be Opened.

[Special correspondence MANUFACTURERS' RECORD.]

BIRMINGHAM, ALA., June 21, 1889.

There is at least one point of similarity between Irishmen and Israelites, namely, when you find either an Irish gentleman or an Israelitish gentleman, you find a man that is a gentleman from the crown of his head to very soles of his feet. Some time ago while at Fort Payne I met Mr. A. S. Loventhal, of this city. He was introduced to me by Mr. Wm. H. Edmonds, of the MANUFACTURERS' RECORD. We rode with him down to Birmingham, and I cannot recall an instance where so many miles of railroad travel seemed so short. Mr. Loventhal is one of those clear-headed men whose companionship is not only calculated to make an acquaintance wish to know him better, but to make one desire to have him for a friend. In a moment I shall have more to say of him and also of Colonel Godfrey, the general manager of the Fort Payne Coal & Iron Co., through whose hands pass all the interests of that magnificent enterprise.

I asked Mr. Loventhal what he thought of the prospects of Fort Payne. Said he: "The brains, energy and money concentrated there, supplemented by the business qualifications of men of national reputation in their lines, make it an impossibility for Fort Payne to prove a failure. Coking coal and iron here lie in close juxtaposition and in large quantities. These may here be easily and profitably mined. Furnaces and rolling mills are in course of construction. Nail factories, carriage works and fire brick kilns of large proportions will soon have their products in the market. Business blocks, an opera house and two superb hotels will be completed and in full running order by August 1st."

"There are two banks at Fort Payne," he went on to say, "namely, the Bank of Fort Payne, already having a magnificent business, and the First National, which latter will be ready to open by the time you print the next issue of the MANUFACTURERS' RECORD. Streets have been laid out and macadamized, and within 90 days there will be at least six miles of as fine streets as are to be found in the South. Water works are complete, affording absolute protection against fire as far as is possible with a pressure that will throw water over four-story houses."

"In addition to the public improvements provided by the company, there are a score or more of private enterprises, some of them of large proportions, all working hand in hand with the company for the promotion of Fort Payne's prosperity."

I asked Mr. Loventhal what he thought of Fort Payne as a health resort. In this day and time people are as much interested in finding a place free from malaria as in finding a place where money may easily be made.

"I know of no place in the South," said he, "considered from this standpoint, that enjoys a greater freedom from malaria than Fort Payne, which has not only an atmosphere that is bracing but water that is absolutely unpolluted. The town site is more than 1,000 feet above the level of the sea, and if I mistake not, it is the highest point between Birmingham and Chattanooga. The fact is, aside from its industrial advantages, Fort Payne might be made the foremost health resort of all the

South. It has not only pure water, but a great variety of waters, including limestone, freestone, magnesite, sulphur and chalybeate springs."

"Tell me something about the hotels in course of construction at Fort Payne."

"The company is completing a hotel where every man can have a front room. Like everything else the company has undertaken, no expense has been spared in equipping this, to the minutest details, with all comforts possible to hotel life. They have their own power for electric lights and steam heating. They have named it 'De Kalb Hotel,' and it will be managed in such style as will make the 'De Kalb Hotel' famous to the traveling public as a first-class place of resort."

"Facing this hotel," he continued, "is a body of land of about 60 acres, laid off in town lots, owned by Messrs. C. O. Godfrey, A. S. Loventhal and G. H. Ten Broek. Half of this property has been sold in lots, upon which residences are in process of construction. A park of 5 acres has been laid out. Within this park the Mineral Springs, referred to above, are located. These springs have for years had a State reputation. Notwithstanding the lack of accommodations, this has for years been a place of resort for invalids. Amongst such I may mention Judge Rice, of Montgomery, who claims from his own experience that these waters are a specific for dyspepsia and all ailments of the stomach."

"What kind of a caravansary is the Manitou Park Hotel to be?"

"Near the springs just mentioned, all of which lie within a radius of 50 yards, this hotel has been built. In addition to all modern improvements, that is to say, electric lights and bells, hot and cold baths, and steam heating it is built and located with a view to make it a health resort as well as a place for pleasure."

"Fort Payne lies on the Queen and Crescent Route, in the valley made by two ranges of mountains. The De Kalb Hotel lies on the west side of the railroad. The Manitou Park Hotel is located at the very base of Lookout Mountain, overlooking the entire town. From its cupola the valley may be seen stretched out for miles either way, in a high state of cultivation. This hotel will be opened for the reception of guests about August 1st."

"Whom do you consider the presiding genius of the Fort Payne enterprise?"

The term "presiding genius" may be too strong; whilst Mr. W. P. Rice is the Napoleon of finance, Col. Spaulding the Lycurgus, and Dr. Ford the Demosthenes, nevertheless Major C. O. Godfrey, who has had the main management of the practical details is endowed with such executive ability, such power of concentration, such consummate skill in harmonizing the various conflicting elements, that to him as much, if not more, credit is due than any other one individual. I have been associated with Col. Godfrey, directly and indirectly, for the past two years. I have observed his methods, have tested his integrity, and know his force, and in answer to your question, I would say that Col. Godfrey is as much entitled to be called the "presiding genius" of Fort Payne as any other man.

Now that Mr. Loventhal has expressed his opinion about Fort Payne and the men who are making it, it is in order to say a word about Mr. Loventhal. He is a man of education and culture, a most agreeable gentleman and has a certain magnetism in his address that wins universal confidence. I should not violate the rules of the MANUFACTURERS' RECORD by devoting so much space to a single individual, but for the fact that Mr. Loventhal is one of the foremost promoters of Southern industrial development. He came to Birmingham less than three years ago as a member of the rich and successful firm of J. C. Marks & Co. Since then he has been identified with a number of enterprises calculated to lead capitalists to invest in Alabama resources.

Next week I will send a complete list of enterprises now under way at Fort Payne.

THOMAS P. GRANTY.

More Railroads Necessary.

Railroad building has scarcely kept pace with the development of the diversified industries of the South. One reason, among the many that might be adduced, is that capitalists who loan money on railroad securities must be satisfied that the country to be traversed can furnish business sufficient to pay running expenses and fixed charges before they will invest. But other investors, who know that when their mines are opened and their furnaces and coke ovens are finished railroads will strive to reach them and secure their freights, put their money into enterprises and go to work, and after that there is no trouble for the railroad financiers, for the money is forthcoming. This has been the case repeatedly since 1880, and will continue to be for a long time in the future. There are many parts of the South without railroads that can never be developed until they have them. Many of these sections are wonderfully endowed with natural wealth that is of no present value, because too far from economic transportation. Lands rich in ore and coal in these places can be bought in large tracts for a small fraction of their intrinsic value. But let it be announced that a railroad had been chartered to penetrate that territory, and at once the land owners would advance their prices. The only safe plan for capitalists who wish to open up virgin territory is to secure all the land they need and then to get their railroad charter. On the other hand, owners of lands that would be of exceeding value because of their minerals, and who wish to have railroads pass through their property, should start industries that would compel railroad companies to seek their freights. They could be absolutely sure that among the many enterprising railway builders of the United States there would be some one to improve such an opportunity.

The Railway Age, of Chicago, recently published an instructive chart, in which was given the railroad mileage of the country, by States and territories, accompanied by a diagram showing the proportion of mileage to area for every one of these political sub-divisions, Massachusetts being used as the standard. That populous State has one mile of railroad to every four square miles of area, while in the South the mileage must be increased several hundred per cent. to bring it up to that standard. The ratio of progress made in the Southern States east of the Mississippi during the years from 1883 to 1888, inclusive, is shown in the following table. We select these States because most of them have been the scenes of extraordinary industrial activity during the past six years, and are now progressing even more rapidly than in any preceding twelve months:

	MILES OF RAILROAD IN—		GAIN.
	1883.	1888.	
West Virginia...	948	1,877	380
Virginia.....	2,553	2,918	365
North Carolina..	1,819	2,478	659
South Carolina..	1,349	2,106	757
Georgia.....	2,023	2,836	813
Alabama.....	2,080	3,052	972
Tennessee.....	2,118	2,485	367
Kentucky.....	1,852	2,596	744

While, as the foregoing tables show the average increased railroad mileage for six years in eight progressive States was but about 32 per cent., the increase of their freights of all sorts has been immeasurably greater, and the large number of establishments that have become producers during the first six months of this year and of those that will be before 1890, will add immensely to the total tonnage. It is noteworthy that while most of the older railway systems of the South have extended their lines to cities beyond their former terminals for the sake of securing new through business, they have incidentally called into existence numerous small industrial establishments along the new line, which in the aggregate give them a very considerable traffic. Every new depot becomes soon after its establishment the nucleus of a trading place to which the farmers carry perishable products for which they had no market previously, and this stuff, gathered up by the retailers, is shipped to city commission men and becomes an important item in the treasurer's report of the month's business.

Over and over again during the past six months we have read pessimistic prophecies that railroad building in the Southern States would soon stop and remain at a standstill for a long time. The reason assigned was that it was "overdone;" the South did not need and "could not give" paying business to those already built or nearing completion. All these forebodings are the croakings of ignorance or the utterances of jealousy or malice. The South must have more railroads in the shape of extensions and feeders of old lines. Most of the territory that could be profitably occupied by trunk lines between the North and South is already appropriated; but all the trunk systems could benefit themselves and the public by running branches into unoccupied territory in such numbers that every railroad map of the South would look as if each State were covered with herring bones. When that comes to pass it may be necessary to cease building railroads for a time, but so long as cotton and all other produce has to be carted from twenty to thirty-five miles to a railroad station, as is now the case in more than half the Southern States, and so long as nine-tenths of its mineral and forest treasures are too remote from economic transportation to be utilized, new railroads will be required, and the money to build them will be forthcoming. The daily revelations of new enterprises and of discoveries of additional natural resources but confirm the wisdom of what Judge Kelley stated in the MANUFACTURERS' RECORD some

months since, that the great plants of the West having been completed, the same energy and capital that had been expended there until that field was exhausted, would seek in the South fresh opportunities for employment. That prophecy is being fast fulfilled.

FLORENCE, S. C.

One of South Carolina's Most Progressive Towns.

An Excellent Opening for New Industries.

[Special correspondence MANUFACTURERS' RECORD.]

FLORENCE, S. C., June 22, 1889.

In looking at a railroad map of this section the other day, I was struck with the similarity of this place to Rome, of which in its palmy days was said, "all roads lead to Rome." So you can equally as well say of this town, that all roads lead to Florence, as this is the great central point of the Atlantic Coast Line System and all trains, either North, South, East or West, pass through here. Four roads are represented, viz: the Wilmington, Columbia & Augusta, Northeastern, of South Carolina, Cheraw & Darlington and the Florence Railroad, which, joining with the Fayetteville branch of the Wilmington & Weldon at Fayetteville, will form when the union is made the celebrated "Wilson Short Cut," saving a distance of sixty miles between the North and the South.

Florence is eminently a railroad town, for in addition to the numerous roads, the Atlantic Coast Line shops are located here, and between two and three hundred men constantly employed in them. The company turns out all classes of passenger and freight cars from a freight car to the finest passenger coach, and locomotive repairs of all kinds are made; thousands of dollars being paid to labor every month, which of course makes the merchants as well as the laborers prosperous.

The city of Florence was formerly located in Darlington county, but recently the legislature set off a new county from Darlington, Williamsburg, Marion and Clarendon, and it has been christened Florence, so that now the town is feeling its first flush of pride and importance as a county seat.

Topographically the location is an excellent one. Being upon a level, though well-drained plain, with a sandy soil, water does not stand long, and soon after a heavy rain the roads are as good as before it, while the cultivated land has absorbed the moisture to be given to plant life as needed.

The history of the town is not of great antiquity as the first settlers located here in 1859, and the town was incorporated in 1871 with a population of only six or eight hundred, while to-day it has about four thousand, almost all of whom own their homes and are working for the upbuilding of the best interests of the place.

The products of the soil are largely diversified, though cotton has been the great staple. Recently light tobacco has been tested and found to be a most profitable crop. Mr. Rogers, near here, last year clearing over \$6,000 from a thirty acre field.

It has been only for a short time that the people of Florence have been making any decided effort for the location of manufactures, but now they have awakened to the fact that with the excellent transportation facilities afforded, the low freight rates accorded, superior inducements can be offered, and the result is that a cotton-seed oil mill has been started, with Mr. C. M. Covington,

president; a planing and moulding mill by Hodges & Newton, a bottling works by C. L. Stickney, an electric light plant is a surety in the near future, as also an ice and furniture factory. A move, which will undoubtedly be carried forward within the year, is for an artesian well to supply the town with water, and many other enterprises are on the tapis, the most of which will come to fruition.

Building is going forward very rapidly, seven new brick business houses are now being erected and the foundations of several more will be begun in a short time. An Episcopal church is being rapidly finished, while a large number of handsome residences are going up in every section of the city. The new courthouse and jail are being erected at a cost of about \$25,000, and, by the way, the bonds issued for these constitute the only debt the city has, and the bonds sold to a banker of Charleston, this State, at two per cent premium, an excellent showing for the management of the city's affairs.

There is some talk of organizing a land company here for the purpose of bringing the interests of Florence before the investors of the North, and if this is done, I predict that in a very short time the city's thousands will be numbered in the "tens."

More capital is needed. The people have an ample supply of energy and enterprise, but there are comparatively few who have surplus means which can be spared from their business for the purpose of forming new industries, and this place, therefore, offers to outside capital one of the most inviting fields of the South, as any concessions which can with reason be asked will be given to those wishing to invest in any enterprises which will tend to advance the interests of the city. A cotton mill could be built here and pay large dividends on the money invested, and a tobacco factory would also be an excellent investment. Fuel is cheap and an ample supply can be obtained at the shortest notice, and all conditions are the most favorable for industries of every class. One of the pressing needs of the present time is a first class hotel building. To the one who first takes advantage of this need and invests sufficient money to erect one with modern improvements which will accommodate from one to two hundred guests, there is an assured fortune. Should any one ask where is there an opportunity of erecting a good hotel with a surety of quick and ample returns, of all the places in the South which I have visited, I should most assuredly answer, Florence, South Carolina.

There is one good bank here, but more banking capital is needed, and a national bank with a capital of \$50,000 would find ample use for its money on first-class securities.

The Florence Times, by Prince & Starr, is an eight page paper wide awake to the interests of its home and keeping pace with the times. It has steam presses, run by an Acme oil engine, which by the way was bought through an advertisement appearing in the MANUFACTURERS' RECORD. The office does a very large amount of job work, receiving many orders from surrounding towns and cities and adjoining States. The Farmers' Friend is another paper also published here.

Florence is in reality just breaking the shell. It has been for some years in a state of incubation, and though it comes out of the shell a very winsome and fair-sized chick, still when it begins to scratch for itself and chase the insects, which, in the shape of new industries, are swarming so thickly in the Southern States, I predict that she will not be left in the race, and that lively, indeed, must be the other members of the brood if they prevent her from getting a crop full of wholesome, invigorating food.

Those desiring information concerning

the city can correspond with the mayor (called here "intendant"), Mr. W. H. Day, or with Mr. Geo. G. Lynch, train-master of the Charleston and Columbia divisions of the A. & C. line, or Mr. Jerome P. Chase, who is one of the oldest residents of the "burg," or the Florence Times, or, in fact, any resident will gladly give any information in his power, and gladly welcome all who may come for the purpose of looking over the ground.

JOHN P. COFFIN.

How to Secure Big Profits.

[For MANUFACTURERS' RECORD.]

A gentleman travelling in the extreme South writes: "I was obliged to spend a day in a little place which I will call Nameless. While there I made the acquaintance of a village merchant, and passed several hours listening to his quaintly shrewd comments on men and things in his intervals of leisure. A countryman drove up, hitched his mule, sauntered in leisurely, took a seat, adjusted his quid after a copious expectoration, and then asked: 'Mister, be you buying peaches?' 'Yes, if they are good every way,' said the merchant. After some talk the man went to his wagon, lifted out a sack, lugged it in, dropped it on the floor as though its contents were of wood or iron, and knelt down to untie the string. 'Don't trouble yourself,' said the merchant, 'I don't care to see them. If they were the best that ever grew I have no use for them. Peaches carried in sacks and tumbled about as you have done those are no good.' The peach vender looked his astonishment. He was too dumfounded to speak. He fussed away at the string, loosened it after a while, let some of the fruit roll out on the floor, gathered them up, and reaching out to the merchant, said: 'Mister, you try 'em—they'r good eating.' 'See here,' said the other, 'look at this bruise. There's not a peach in that sack that will keep a day. Every one has a soft spot or a broken skin. You might as well carry lamp chimneys in a sack as peaches.' There was some delay in getting rid of the countryman, who continued to the last to insist 'they'r good eating.' To him that was all sufficient. After his departure the merchant said: 'All the farmers in this county have more or less peach trees that hit every year, and the fruit is first rate. I have been trying to educate them how to gather them and bring them to me. They mature here so early that I can afford to pay them a good cash price for them and to ship them. Before this railroad was built they used to dry some and distill the rest. Now they can get spot cash, and more of it, for fresh peaches than they once did for their brandy or their dried fruit. I came here with the railroad, and tried the first year to buy peaches to ship. Then every farmer brought them in sacks, and when I refused to take them they thought I was 'putting on airs,' but I got most of them to understand why I objected, and after that I had no trouble. Now and then some new man comes along who has only now heard that he can get cash here, and usually he does as that fellow did—puts them in sacks, piles them in his cart and sits on top all the way from his home here. Of course his peaches are unfit for my use."

There is a far reaching moral in this simple story. It applies to everybody who has anything to sell. A good article is frequently spoiled for the market by improper handling. A poorer often pays a handsome profit because its owner understands how to make it look attractive. The eyes of a customer are more often his guide to a purchase than his judgment. Most manufacturers of small

things understand this. Neat packages and handsome labels are the rule of the trade at this era. Honesty in packing is another essential to success. The day when inferior fruits, covered by a handsome top layer, would sell readily has gone never to return. The customer looks beneath the surface of the basket or box to see what is there. The best, honestly selected, neatly packed, will sell at prices much beyond what equally good fruit put up in a slovenly fashion will bring. Southern whortleberries, which are now in the Northern markets, illustrate our meaning. If, when the box is opened, the would-be purchaser sees that great and small, blue and black, are promiscuously mixed, and that unripe berries are scattered among them, he looks elsewhere to find what he wishes. Those who know their business have wire screens with interstices of varying sizes. By using these the largest, the medium and the small are separated. The least, being of uniform size, will bring more money than a box of the mixed, while the largest will bring still more. The aggregate gain is a profit worth having. Experienced orchardists have learned these things, and select the most skillful packers they can find and pay them accordingly.

The South has recently engaged in the canning business extensively. There is room for a much larger expansion. But those who think quality is the only thing to be considered will "get left." Neat cans, pretty labels, nice packing cases are absolutely essential to a profitable marketing. Slovenly put-up stock will not sell at a profit. Often it is impossible to find even a bidder.

The MANUFACTURERS' RECORD might continue indefinitely these illustrations of the lesson taught by the sacked peaches, but it has said quite enough. To secure big profits, all economies must be observed in the handling and preparation, but it is not economy, but its opposite, to be careless in packing and labeling. Please the eyes, give honest qualities, measures and weights, and profits will be satisfactory.

Castor Oil Making.

ORLANDO FLA., June 18, 1889

Editor Manufacturers' Record:

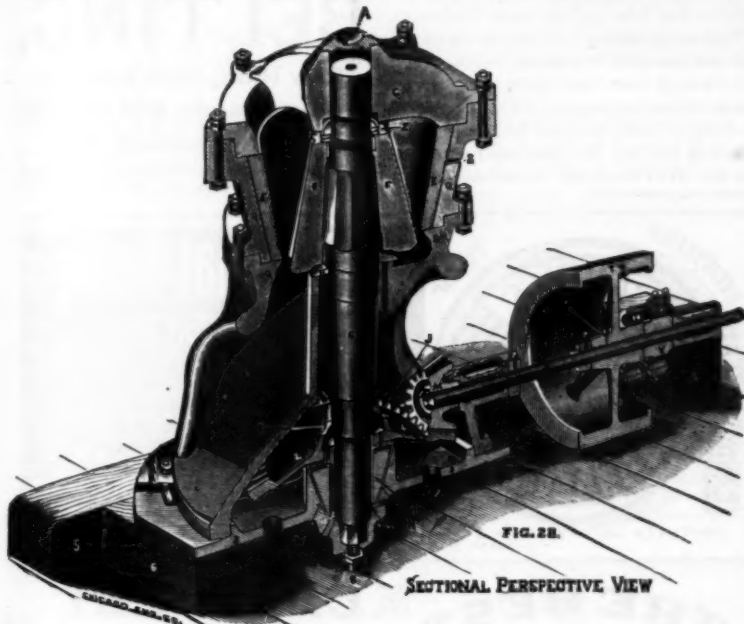
As a resident of Florida, I would like to inquire why the manufacture of castor oil could not be made profitable here. The plant grows here as it grows nowhere else in the United States. In South Florida frosts seldom are sufficiently hard to affect either beans or plant. Beans ripen perfectly, and frequently the plants survive the winters for several successive years, until they become trees twenty feet high and six or eight inches in diameter. The beans ripen at all seasons of the year, thus coming in at all seasons instead of in the fall and early winter as in the North. Thus no "big money" need be tied up in a stock of beans to keep a mill running through the year. I would be willing to give all information possible to practical men.

MAHLON GORE.

THE MANUFACTURERS' RECORD is the South's great industrial exponent—"the most widely-quoted industrial paper in the world." No business man interested in the south can afford to do without it (price \$4 a year). Subscribe now.

The Gates Rock and Ore Breaker.

From the sectional view of the Gates breaker as shown in the illustration, it will be seen that its construction is simple. Herein lies its first great advantage. Breakers in constant use for years are still doing the maximum amount of work. Improvements from year to year have been made, and the demand for still larger machines met, until the makers now build



ROCK AND ORE BREAKER.

breakers capable of producing 150 tons of road metal per hour at a cost, it is said, of breaking of less than two cents per ton.

In arranging for a plant care should be taken to save labor in handling stone. The Gates breaker admits of dumping the stone from a cart or car directly into the hopper, saving all handling except the duty of keeping the stone from choking the hopper. On the largest breaker one man is capable of keeping the hopper open when stone is being broken at the rate of from two to three tons per minute. The smaller the opening, of course the more care is required to keep the stone from clogging.

In breaking large quantities of macadam and railroad ballast it is sometimes economy to use two breakers, the first one for coarse breaking and the second one for the screen rejections. This is a favorite plan with many macadam makers on account of cubing better and making less dust, and it also works equally successful in making very fine material.

With the Gates breaker the broken material may also be run over a screen and the rejections carried back to the same breaker. This latter plan has some especial advantages, as the stone is largely rebroken upon itself, making the most perfect and even cubes and saving in wear of heads and concaves. The Gates breaker is adjustable. As head and concaves, or liners, wear, the head can be raised to compensate.

The manufacturers say: "We are often asked how long a set of liners and a head will wear. This of course depends entirely upon the character of the rock. Many breakers have been run years without a renewal of these parts. On granite, trap rock and many other cutting varieties of rock or ore the wear is more rapid. It is a fact, however, well sustained by experience, that the chilled surfaces in the Gates breaker will outlast those of a jaw breaker two or three times on the same material." Further particulars can be had from the manufacturers, the Gates Iron Works, Chicago, Ills.

TO ERECT ELECTRIC LIGHT PLANT—SUMTER, S. C., June 12, 1889.—We are organizing an electric light company here and wish to purchase steam plant and arc and incandescent dynamo. We hope to begin running September 1st next, and have contract with city for 25 arc lights to begin.

D. J. AULD.

WILL ADD INCANDESCENT PLANT—BATON ROUGE, LA., June 12, 1889.—We are about to erect an incandescent plant "in connec-

FOR SALE CHEAP.

One BEMENT PLANER, 42x42" x17 feet. Two heads on beam with power feeds. One Side Head with hand feed. Beam has vertical automatic feed.

One SELLERS PLANER, 38"x36" x8 feet. Two heads on beam with power feed. One PRATT & WHITNEY PLANER, 20"x20"x5 feet. The above being replaced with Open Side Planers. Address

DETRICK & HARVEY, Baltimore, Md.

Lowell Steam Boiler Works, LOWELL, MASS.

Estimates given on New Boilers of every Description. All kinds of Second-Hand Engines and Boilers. For sale also, 1 Hunneman and 1 Button

STEAM FIRE ENGINE

In First-Class Condition. To be sold cheap. For Prices, Terms, &c., address as above.

GROUND MICA OF EVERY GRADE.

Richmond Lubricant & Mica Milling Co.
RICHMOND, VA.

FOR FIRST-CLASS

BOILERS,

Tanks, Stacks, Tubes, Engines, Gins, Mills, Injectors, Shafting, Pulleys, Belting and Fitting,
At BOTTOM PRICES,
ADDRESS

GEO. R. LOMBARD & CO.
AUGUSTA, GA.

Don't fail to write to us before you buy.



POWELL'S Grease Cups

ALL IRON for Line Shafting.
With Patent Cut-Out for Regulating Flow of Grease.

For Sale by THOS. C. BASSHAW & CO., Baltimore, Md.

MANUFACTURED BY
The WM. POWELL CO., Cincinnati, O.
Also a full line of Steam Brass Work.

DON'T BUY AN ENGINE OR BOILER

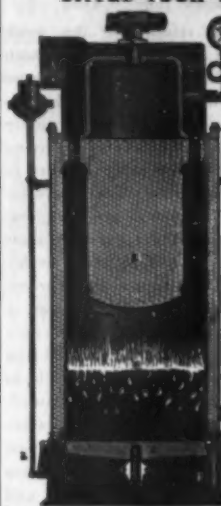
Until you have seen our circulars. Engines complete from 5 to 120 horse power, both Vertical and Horizontal, at prices below those of other reputable makers. 1400 in use. Boilers of every style. Automatic Engines for Electric Lights. Centrifugal Pumping Machinery for Drainage or Irrigation. Established 25 years. Perfect satisfaction guaranteed. Ask for Circular M and address

Morris Machine Works,
BALDWINVILLE, N. Y.

ELIAS EDMONDS,
Attorney at Law
SAN ANTONIO, TEXAS.

Makes the Litigation of Land Titles a specialty. Will also Lend Money for non-residents upon the best real estate security.

Good Steam Heating SAVES YOUR HEALTH.



Simplest in construction.

Largest Steaming Capacity.

Greatest Economy in Fuel.

No Engineer or Skilled Labor is required.

Manufacturers under Fiske's Patent.

Agents wanted everywhere.

Send for new illustrated catalogue and references.

Duplex Steam Heater Co.
29 BETHUNE STREET, NEW YORK.

STEAM PUMPS

For every duty. Best Materials only used. Fully guaranteed and tested. It will pay you to write for prices.

HUGHES STEAM PUMP CO.
CLEVELAND, OHIO.

Donagan & Swift, New York Agents.



MENGEL'S
PRINTING- PRESSES, PAPER- CUTTERS,
PRINTERS' MATERIALS. PRINTING INKS, &c.

LARGEST TYPE AND ELECTROTYPING FOUNDRY AND PRINTERS' SUPPLY HOUSE SOUTH OF PHILADELPHIA.

Our Type is now used by The Baltimore Sun, Washington Post, Critic, Herald, Public Opinion, and nearly all the leading Newspapers and Book Offices in this vicinity. Send for estimates.

JOHN G. MENGEL & CO.

No. 111 E. GERMAN ST., BALTIMORE, MD.



PENBERTHY AUTOMATIC INJECTOR.

Simple, Reliable, Durable.
Send for prices.

MANUFACTURED BY THE
Penberthy Injector Co.
DETROIT, MICH.

BRICK
AND
TILE



PERFORATED METAL
FOR
COTTON SEED OIL MILLS
RICE MILLS
MINING SCREENS &c

THE ROBERT AITCHISON
PERFORATED METAL CO.

76 Van Buren St. Chicago Ill.

QUICK LUBRICANT—Wanted a good house in every city and town to handle our Lubricant. Our goods have been well introduced.

KUREKA MFG. CO.
Foot & 2nd St., New York.

WESTPHAL'S IMPROVED
REVOLVING
SCREW, BOLT AND SHOT CASES.
ADJUSTABLE FIRE BACKS
AND LININGS FOR COOK STOVES.
IRON STORM THRESHOLDS.
SEND FOR ILLUSTRATED CIRCULARS.
SCHENCK'S ADJUSTABLE FIRE BACK CO.
94 MARKET STREET, CHICAGO.



"Swift" Lubricator
FOR
Steam Engines,
Steam Pumps, &c.
A PERFECT SIGHT FEED,
Without the use of Glass
Tubes.

Send for photograph, circular and prices.
The "Swift" Lubricator Co.,
ELMHURST, N. Y.

"THE COLLIAU"

NEW AND IMPROVED
HOT BLAST CUPOLA,
(patent March, 1884), and New
Smokeless and Automatic Feed
Roller (pat. 1886, in U. S.).
Correspondence solicited for
plans of foundries and the economical
working of cupolas, the saving of fuel in
melting iron and steel, and in the production
of steam. Address VICTOR
COLLIAU, Mechanical & General
Engineer and Architect, 287 Jefferson
Avenue, Detroit, Mich.

THE MARKETS.

OFFICE MANUFACTURERS' RECORD,
BALTIMORE, June 26, 1889

The commercial returns for the week show a steadily expanding business in both iron and steel. The market seems to have reached the turning point, and all indications are now pointing slowly but surely upward. Buyers are desirous of receiving their iron promptly, as a rule. Makers in many instances refuse to place orders for sixty to ninety days hence at present quotations. Chattanooga makers have sent their representatives in New York word to this effect. Pittsburgh iron men want no orders for ninety days hence at present rates, or even at a 25 cent per ton advance on crude irons. Philadelphia crude and finished iron makers report a better condition of mill, as regards orders placed and prices obtained. Southern irons have been arriving in rather small lots at New York within the past week, and that which was received was mostly under order. In the West and Northwest it is difficult for the Alabama and Tennessee iron men to furnish iron fast enough to meet requirements in that section. As a consequence prices are stiff. Demand is brisker and prices more uniformly firm on all brands of Southern coke and charcoal irons. The car builders have been taking large lots of car-wheel iron for early delivery. Track supplies all over the country are in better demand. A few days ago the Baldwin Locomotive Works, of Philadelphia, booked an order for 76 locomotives for one road. Since the arrival of this order several smaller orders have come in. It will keep the works busy to get out the present work by the middle of September. Barbed wire remains in very active demand, especially in the West. The demand for it is growing in the South. Galvanized is in best call; it commands 3.35 cts.; painted 2.75 cts. Shelf and staple hardware is in good request North, East, South and West. Stocks are lowest in the West.

The Pennsylvania managers of bloomeries report the usual well sold up condition of their establishments. Some of the largest works are out of the market, having gorged themselves with orders. Quotations, as nearly as can be gotten at, run at \$53 for charcoal and \$54 when prompt delivery is called for. By prompt delivery we mean inside of a month. It is hard to get orders before that time at any price. Anthracite are selling at \$43.50 to \$44. Scrap \$33 to \$34. Nail slabs are in good request at \$23 to \$23.50. Tank slabs are selling well at \$30 to \$31. Flange \$36.50. Firebox \$40. Chattanooga is to have another iron establishment. A party of New England capitalists recently purchased a tract of land comprising 2,000 acres of manganese and brown hematite ore. The land adjoins Tunnel Hill, Ga. Mining operations have been commenced, and a large manganese converter will be placed in position for making spiegeleisen. The company will build a railroad to the mines; they will also build a 100-ton blast furnace.

Finished iron mills both East and West are gradually filling with business. Makers are not particularly anxious to book orders for forward delivery even at the present advance of from one to two dollars per ton. Quotations run from 1.60 for common, 1.70 for medium to 1.80 cts. and 1.90 cts. for refined. Car builders have been making more liberal purchases recently on account of the larger orders being received for rolling stock generally.

A decidedly better feeling is apparent in the muck bar market, although it is a little difficult to give exact quotations, some makers quoting \$28, others \$25.50, and some even asking as much as \$29. Orders are fairly plentiful, but as a rule are placed at

\$28, at which figure a good average bar may be had, but not under that price. Inquiries are very numerous. Consumers have allowed their stocks to run so low that they are compelled to pay the recent advance of from 50 cts. to \$1 in order to fill out present orders in hand.

Plate and tank mill owners feel indifferent about booking orders at present, being very well booked up for both early and forward deliveries. Prices have advanced for ordinary plate and tank, which are now quoted at 2 to 2.15; universal plates 2.20 cts.; shell 2.40 to 2.50 cts.; flange 3.25 cts.; firebox 3.70 to 4 cts.; steel plates 2.20 to 2.30 cts.; shell 2.50 to 2.70 cts.; flange 2.75 to 3 cts.; firebox 4 cts. Holders of positions in the Brooklyn Navy-yard have experienced considerable uneasiness on account of the visit of Secretary Tracy to that city, as they fear a change in officials. The ship-yards along the lakes are full of orders for all varieties of craft. The Delaware river ship-yards are full of work, likewise the San Francisco yards from latest reports. Such a boom in ship-building has not been felt for some years past.

Structural iron makers are confident of receiving very large bridge iron contracts this summer, but cannot give any idea as to their size. Engineers on railroads have not yet finished their specifications for new iron bridges on the parts washed away. In fact, they have scarcely begun their gigantic work. Quotations in this department are strong at 2.05 to 2.15 cts.; angles 2.10 to 2.20 cts.; tees 2.50 to 2.60 cts.; beams and channels 2.80 cts.

The sheet iron mills are well supplied with orders, and card rates prevail on both large and small orders. Quotations remained unchanged.

The nail market in the West is in a very unsettled condition on account of the deep cuttings that have been going on for some time. In the East a better condition is reported. At store cut nails can be had at \$2.00; at mill 1.90 and \$1.85. The building demand is absorbing large quantities.

The meeting of the iron pipe makers in Pittsburgh last week resulted in the advancing of quotations on line pipe and boiler tubes. Quotations on the rest remained unchanged. The International Brotherhood of Boiler Makers, in annual session in New York, on Friday adopted a resolution requesting the Secretary of the Navy to enforce the resolution of the last Republican National Convention that only citizens of the United States be employed on government work.

The steel rail market is difficult to describe. In the West inquiries are numerous and sales of light rails for street car purposes fair. Rails for heavy work have sold slowly. In Philadelphia representatives report sales of small lots. In New York there was a large amount of business booked according to latest advices. The sales have been principally in small lots, ranging from 200 to 1,000 tons. The largest reported sale was of 3,000 tons. Small orders are taken in the East at \$28, which is claimed to be the bottom price. In the West \$29 and \$30 are the lowest quoted. Inquiries from the managers of Southern roads have been quite numerous, but only small lots have been placed as yet. The demand is principally for repairing and extension purposes. The influx for new railroad building, if it comes, will probably arrive about the middle of July, according to rail makers' predictions.

Old rails are selling fairly well in all markets. Prices run at \$23 to \$24 in Western; \$22.50 and \$23 are Eastern rates.

Scrap dealers have done a tolerably prosperous business, both in collecting cheap lots for summer selling and in disposing of odd lots at fair prices. Quotations may be given at \$21 for cargo; car \$21.50 and \$22; choice \$23; borings \$9 to \$10; turnings \$15.50;

castings \$15 to \$16; old car wheels \$17.50; old fish-plates \$23 to \$24; old steel rails \$16 to \$18.

HARDWARE.

The trade say that while the market has not been characterized by much activity of late, the quantity of goods sold this year compares favorably with that of former seasons. Prices, however, have been ruinously low and demoralized, some manufacturers preferring to sell at a positive loss rather than have to close down their works. They are beginning to recognize the danger of this unprofitable business, and to remedy it some of them have under consideration more remunerative prices for their products, which the trade think can be looked for on leading articles. No changes of note have as yet taken place, and the volume of business continues fair.



SOUTHERN AGENTS: Smith & Courtney, Richmond, Va. Atlanta Rubber Co., Atlanta, Ga. Baker, Sisco & Co., New Orleans, La.

DIXON'S

DRY
GRAPHITE
OR
GRAPHITE
GREASE

"are the only things that will keep cool journals on High-Speed Wood-Working Tools." So say many who have tried them.

JOS. DIXON CRUCIBLE CO., JERSEY CITY, N. J.

SMITH & COURTNEY,
1419 Main St., Richmond, Va.

BELTING,

Raw Hide, Oak-Tanned,
Rubber, Candy and Cotton-
Leather, Lacing, &c.DON'T Buy before writing us for Price-List
and Discounts. Largest stock
in the South.

The "Original Candy"

Sawed Cotton Duck Belting.

Especially adapted for Main Drivers, Saw Mills, Cotton Gins, Cotton Presses, and for all places where belts are subjected to moisture or atmospheric changes, the "GANDY" stands paramount.

For further information, prices, etc., write

The Gandy Belting Co.

BALTIMORE, MD.

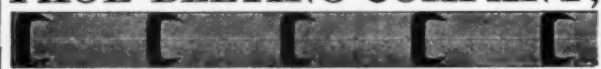
THE BEST & CHEAPEST

IN THE WORLD

STITCHED CANVAS BELTING

THE CHESAPEAKE BELTING CO.
BALTIMORE, MD.

PAGE BELTING COMPANY,



SECTION OF COPPER WIRE-SEWED LIGHT DOUBLE BELTING.

We Manufacture
ple and special grades

Also the "HERCULES" Lacing

The Hercules is

lacing; combines

Raw Hide and of

Send for Catalogue

Grades of Belting to use

CONCORD, N. H., U. S. A.

all the sta-

of Leather Belting.

and the PATNA BRAND Lacing

mechanically made; is a buffed

the good qualities of ordinary

Page's Patent. Try it.

No. 21, describing the "Kinds and

for Different Kinds of Work."

SHULTZ BELTING CO.

MANUFACTURERS OF

IT BELTS THE EARTH AND MAKES THE MOON SPIN LIKE A TOP.

OUR BELTING IS TANNED ON THE SURFACES ONLY. INTERIOR IS RAWHIDE. The only Perfect Belt made No slipping or lost motion.

SEND FOR OUR VALUABLE BOOK. FREE.

SELOUIS, MO.

—AGENTS IN ALL CITIES—

S. OBERMAYER FOUNDRY SUPPLY MFG. CO.

Foundry Facings.

Importers and Refiners of

GRAPHITE

Or Black Lead

AND

Lubricating Plumbago.

NO CHARGE FOR TRIAL SAMPLES.



Foundry Supplies.

SHIPPERS OF ALL KINDS OF

Molding Sands

Monk's Molders' Tools.

CINCINNATI, OHIO, U.S.A.

Write for Catalogue and Price List.

The Sturtevant Patent Progressive Lumber Dry Kiln

THE OLDEST IN THE FIELD.

Complete working drawings of KILNS of all sizes furnished to customers free of charge.



Send for illustrated catalogue No. 32 of Steam Hot Blast Heating and Drying Apparatus.

B. F. STURTEVANT, 34 Oliver Street, cor. Franklin, BOSTON, MASS.

BRANCHES—91 LIBERTY STREET, N. Y., 31 N. CANAL STREET, CHICAGO.

MINING ENGINEERS ELECTRIC PATENT BUILDING CIVIL MECHANICAL ASSAYING

Size 10x14 or 16x18. Complete pocket book. All practical problems solved at sight. Mailed on receipt of 75 cts.

NAVAL CALCULATOR ARCHITECTS SANITARY HYDRAULIC ENGINEERING

R. G. SMITH, No. 1 BROADWAY, N. Y.

VAN DUZEN GAS ENGINE

NO BOILER. NO COAL. NO ENGINEER. No Extra WATER RENT or INSURANCE. INSTANTLY STARTED. DURABLE, RELIABLE, SAFE and ECONOMICAL.

Send for description and prices. Van Duzen Gas Engine CO., 186 E. 2nd St., CINCINNATI, O.

METAL SKYLIGHTS

Made of galvanized iron and copper. Absolutely no leakage from any source; no dripping or sweating; fire-proof; ventilating. Galvanized iron and copper cornices and gutters. Sheet metal work for buildings. Send for illustrated circular.

E. VAN NOORDEN & CO., 383 Harrison Ave. BOSTON, Mass.

QUEEN LUBRICANT—For Thread and Pipe Cutting, Drilling, Milling, &c. Endorsed by leading works of U. S. and Canada. For sale (makes no gain) at list price of 5c. lb. Address EUREKA MFG. Co., Foot East 45th St., New York.

BEST AND CHEAPEST.

The Textile Manufacturers' DIRECTORY of the United States and Canada,

COMPRISING WOOLEN, COTTON, SILK, JUTE, FLAX AND LINEN MANUFACTURERS,

Dealers and Brokers in Raw Material, Dry Goods Commission Merchants and Jobbers.

CITY OFFICES AND AGENCIES OF MANUFACTURING COMPANIES AND DYERS OF TEXTILE FABRICS.

Published and for Sale at 320 and 322 BROADWAY, NEW YORK.

H. H. BABCOCK, Treasurer and General Manager.

PRICE \$5.00.

LATEST ISSUE READY FOR DELIVERY.

LOWE & TUCKER, Chattanooga, Tenn.

DEALERS IN

Pig Iron, Iron Roofing,

RAILROAD AND FURNACE SUPPLIES.

Chattanooga Paint Company, CHATTANOOGA, TENN.

Manufacturers of the

BEST OXIDE OF IRON PAINT MADE IN THE UNITED STATES.

Over 18,000 tons made since 1880. 3,000 tons made in 1888. Over 500 certificates regarding its qualities. Either dry or mixed ready for use.

SEND FOR PRICES DELIVERED AT POINT OF DESTINATION

IRA DIMOCK, Pres. Established 1867. J. L. OTIS, Treas. Northampton Emery Wheel Co.

MANUFACTURERS OF

Premium Solid Emery

AND

CORUNDUM WHEELS,

AND ALL KINDS OF

Emery Wheel Machinery.

LEEDS, MASS.

WESTERN BRANCH:

20 SOUTH CANAL STREET, CHICAGO, ILL.



Advertise in the MANUFACTURERS' RECORD

MILNER & KETTIG,



BIRMINGHAM, ALA.

WRITE FOR CATALOGUES AND PRICES.

Prices guaranteed as low as any house in this line in the United States.

HAINES, JONES & CADBURY CO.

MANUFACTURERS OF

PLUMBERS' MATERIAL,

1186 Ridge Avenue,

Philadelphia, Pa.

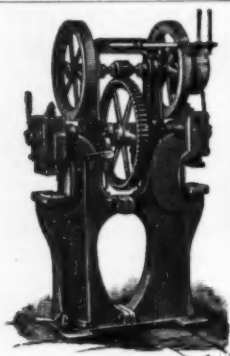
Steam
Engines,
Shafting,
Hangers,
Pulleys, etc.

CANNING MACHINERY,

The Warfield Manufacturing Co.

336, 338, 340, 342 NORTH ST., - - BALTIMORE, MD.

Warfield's
Green Corn
Cutter.



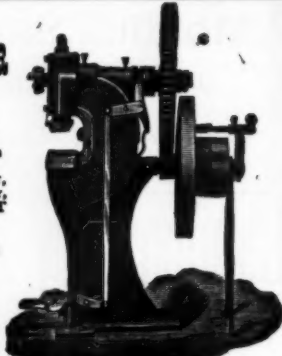
Small Double Machine.

THE
**LONG & ALLSTATTER
COMPANY,**
HAMILTON, OHIO.

Double, Single, Angle-Bar,
Gang, Horizontal, Twin, Boiler,
Spacing, Gate, Multiple, BELT
and STEAM-DRIVEN

PUNCHES and SHEARS,
Over 300 Sizes.

ALSO
Power Cushioned
HAMMER



Small Single Mac' ine.

Send for New Catalogue.

ARCTIC ICE MACHINE

Manufacturing Co.

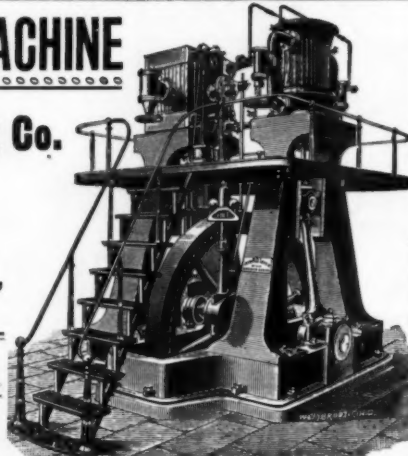
CLEVELAND, OHIO.

OFFICE AND WORKS,

4, 6, 8, 10 WEST ST.,

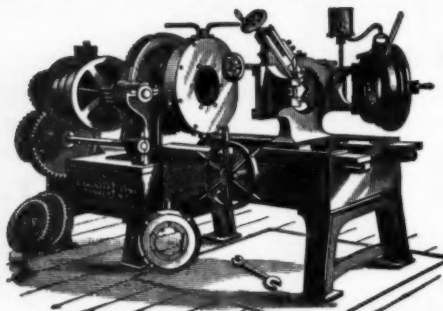
P. O. Box 92.

OUR OWN SHOPS.
MACHINES CARRIED IN STOCK.
AND ORDERS
PROMPTLY EXECUTED.



The Improved Arctic with Corliss Engine.

D. SAUNDERS' SONS



SEND FOR CIRCULARS.

MANUFACTURERS OF
Pipe Cutting and
Threading Machines,
For Pipe Mill and Steam
Fitters' Use.

Tapping Machines

For Steam Fitting. Also,
STEAM AND GAS FITTERS
HAND TOOLS.

Atherton Street.

Send for Catalogue B.

YONKERS, N. Y.

Read This

Twice!—Now again!

Engineers, Machinists,
Steam Fitters, Boiler Makers,

or, for that matter, any Intelligent Man
located in, or visiting, any part of the
country where Steam Boilers are in use,
can learn of an excellent opportunity to
make money by introducing a small
article for which a demand exists on
every Steam Boiler, large or small.

Sample can be carried in the pocket.

Address, enclosing 4 cents in Stamps
for full particulars, and mention
where you saw this.

Box 906, Philadelphia, Pa.

Postal Cards not noticed.

MAN LAZY A

THERE IS "NOTHING IN THIS FOR

E. W. BLISS CO.

PLYMOUTH, PEAPL, JOHN AND ADAMS STREETS,

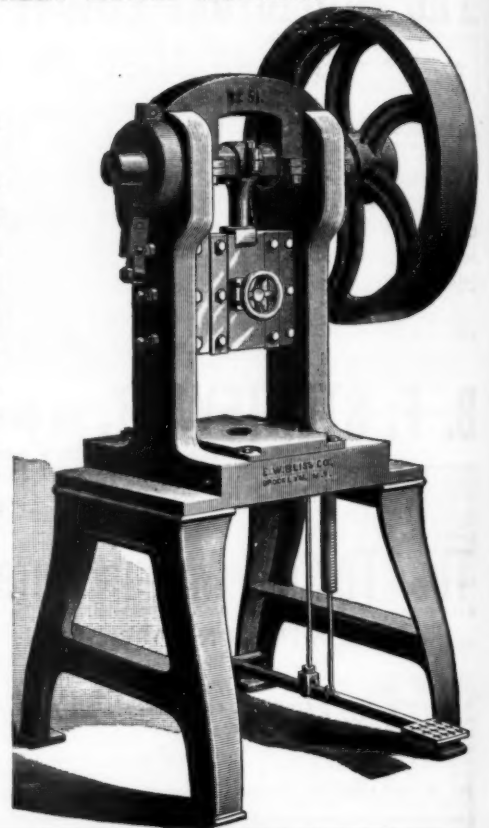
OFFICE—17 ADAMS STREET.

BROOKLYN, N. Y.

Presses, Dies and Special Machinery
FOR SHEET METAL WORKERS.



Cam and Toggle Drawing
Presses, Power Presses, Foot
Presses, Automatic Drop
Presses for Forging and
Stamping, Double Seaming
Machines for round, square and
oval work; Circular Shears,
hand and power; Squar-
ing Shears, foot and power;
Canning Machinery, Dies of
every description, Tools for
working Sheet Metals, Petro-
leum Can Machinery, Special
Machinery. Send for Circu-
lars.



NIAGARA STAMPING & TOOL CO.

—MANUFACTURERS OF—

Tinners' Machines & Tools,

—FOR WORKING SHEET METALS, &c.—

Fruit Can Dies and Tools.

Canners' Outfits.



Superior, Cor. of Randall St., Buffalo, N. Y.



TRANSMISSION
OF POWER.



Machinery for Handling any Material in Bulk or in Packages.

The Link-Belt Engineering Company,

NEW YORK 49 Dey Street.

Nicetown, PHILADELPHIA, PA.

Successors to BURR & DODGE, PHILADELPHIA,

AND

EASTERN BRANCH LINK-BELT MACHINERY CO.

New York.

EWART DETACHABLE LINK-BELTING,
DODGE CABLE CHAIN
ELEVATORS, CONVEYORS, LINK DRIVING BELTS.



HORSE SHOES.

Walker's Horse Shoes.....	\$4.00	per keg
Walker's Mule Shoes.....	\$5.00	per keg
Burdett.....	\$4.25	per keg
Phoenix Light, Medium and Heavy		
Horse Shoes.....	\$4.10	per keg
Phoenix Mule Shoes.....	\$5.10	per keg
Bryden Forged Horse Shoes—		
Frog Pressure.....	\$5.00	per keg
Calked.....	\$5.25	per keg
Special.....	\$5.00	per keg
Bryden Calked Mule Shoes.....	\$6.00	per keg
Perkins Horse Shoes.....	\$4.10	per keg
"Mule".....	\$5.10	per keg
Ox Shoes—Mt. Carmel Ox Shoes.....	10 cts.	per lb.

ICE CREAM FREEZERS.

Footless—3 quart, \$4.50; 4 quart, \$5.50; 6 quart, \$7.00; 8 quart, \$8.00; 10 quart, \$9.00. Giant, with fly wheel, —14 quart, \$20.00; 18 quart, \$25.00; 21 quart, \$30.00; 24 quart, \$35.00; 27 quart, \$40.00; 30 quart, \$45.00. Discount, 10%.		
---	--	--

American—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.
\$2.75	\$3.25	\$3.75	\$5.00

Gem—Discount 65 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
\$2.75	\$3.25	\$3.75	\$5.00	\$6.00	\$7.00	\$11.00

Bliss—Discount 70 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
\$2.75	\$3.25	\$3.75	\$5.00	\$6.00	\$7.00	\$11.00

Double Action Crown—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
\$2.75	\$3.25	\$3.75	\$5.00	\$6.00	\$7.00	\$11.00

With crank.....

8 qts.	10 qts.	14 qts.	18 qts.	24 qts.	30 qts.
\$10.50	\$13.00	\$16.50	\$21.00	\$25.00	\$37.50

fly-wheel.....

13.00	16.00	20.00	25.00	30.00	\$37.50
-------	-------	-------	-------	-------	---------

Crown—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
\$2.75	\$3.25	\$3.75	\$5.00	\$6.00	\$7.00	\$11.00

Star—Discount 60 %.

2 qts.	3 qts.	4 qts.	6 qts.	8 qts.	10 qts.	14 qts.
\$2.75	\$3.25	\$3.75	\$5.00	\$6.00	\$7.00	\$11.00

Shepard's "Lightning"—1 qt., \$5.50; 2 qt., \$3.75; 3 qt., \$4.50; 4 qt., \$5.50; 6 qt., \$7.00; 8 qt., \$8.00; 10 qt., \$11.00; 14 qt., \$14.00. Dis. 65 %.

"Junior" Lightning (extra heavy)—1 qt., Clutch and Fly-wheel, \$20.00; 2 qt., Clutch and Crank \$23.00; 3 qt., Clutch and Fly-wheel, \$28.00.

White Mountain.....

dis 50¢ doz.

Arctic.....

dis 50¢ doz.

ICE CHIPPERS.

Crown.....	dis 50¢ doz.
Star.....	dis 50¢ doz.

Gem.....

dis 50¢ doz.

KNOWNS.

Carriage, (Jay's to C. W. Gross).....	dis 50¢ doz.
---------------------------------------	--------------

Base—Common.....

dis 50¢ doz.

Hamacite Door Knobs.....

new list, dis 35¢ doz.

Door Mineral.....

Same discounts as Door Locks.

Door For, Jay's.....

Same discounts as Door Locks.

Door For, Vlatad.....

Same discounts as Door Locks.

Door For.....

Same discounts as Door Locks.

Furniture Plans.....

75¢ gross inch, dis 10 %

Furniture, Wood Screws.....

dis 5 %

Picture.....

dis 50¢ doz.

Hamacite, Picture.....

dis 35 %

Shutter, Porcelain.....

dis 5 %

Melting & Skim'g, Monroe's Pat. \$5 doz 55¢ doz.

Melting, C & C.....

dis 50¢ doz.

LANTEENS.

Owl Tubular, \$5 doz.....	dis 50¢ doz.
---------------------------	--------------

LAWN MOWERS.

Acme Buckeye, Easy & Excelsior, new list, dis 50¢ doz.
--

Bay State.....

dis 50¢ doz.

LAWN.

Wire Fish.....	dis 50 %
----------------	----------

Free Clothes, Galvanized, 100 feet.....

dis 50 %

LOCATIONS LANCERS.

Cabinet, Eagle.....	Change made in list price
---------------------	---------------------------

Cabinet, Gaylord.....

of some numbers Jan. 1,

Cabinet, Bridgeport.....

1887, dis 55¢ doz.

Cabinet, P. & F. Corbin.....

dis 40 %

Trunk, new list, Jan. 1, 1887.....

dis 15¢ doz.

Yale Lock Co., Flat Key.....

dis 40 %

Yale Lock Co., Flat Key.....

dis 35¢ doz.

DOOR LOCKS, ETC.

Bradford.....	dis 50 %
---------------	----------

Norwalk.....

dis 50 %

Norwich.....

dis 50 %

P. & F. Corbin.....

dis 50 %

Russell & Erwin.....

dis 50 %

The Gem Freezer

The Best in the World.

MANUFACTURED BY
AMERICAN MACHINE CO.
N. E. COR. LEHIGH AVE. AND AMERICAN ST.
PHILADELPHIA, PA.

FOR SALE BY ALL
LEADING JOBBERS
IN HARDWARE, TINWARE AND
HOUSE-FURNISHING GOODS.

WIER & WILSON

DIRECT REPRESENTATIVES:

HUBBARD & CO. Axes, Shovels, Hoes and Saws.
AMERICAN SOW COMPANY, - Screws, Bolts, Wire Nails, &c.
A. FIELD & SONS, - Tacks, and Nails.
WHEELING HINGE COMPANY, - Wrought Goods, Butts, &c.
OLIVER BROTHERS & PHILLIPS, - Heavy Hardware.
L. D. FROST & SONS, - Philadelphia Carriage Bolts.
J. P. TOLMAN & CO., - Braided Sash Cord.
JOHN SOMMERS' SON, - Faucets.
NICHOLSON FILE CO., - Files.
HARTFORD HAMMER CO., - Hammers and Sledges.
THE HENRY O. HART MFG. CO., - Screen Frames, Lull & Porter.
Blinds, Spring Hinges, &c.

SEEBLE & KLEMM, - Stocks and Dies.
HOLROYD & CO., - Wagon Hardware.
BAKER CHAIN & WAGON IRON MFG. CO., - Links, Rings, &c.
Bolts, Nuts, &c.

CLARKE BROS. & CO., - WHITE MOUNTAIN FREEZER CO.
BRANFORD LOCK WORKS, - Fabric Roofing and Paint.
DRUID FELT CO.,

OFFICE No. 14 West German Street - BALTIMORE, MD.

Lake Chautauqua Route

FROM THE
South and West to the East

* Pullman Line to all points on Lake Chautauqua and to New York. Ask for tickets via

ERIE RAILWAY.

Descriptive pamphlets mailed free on application.
E. B. THOMAS, Second Vice-President.
L. P. FARMER, General Passenger Agent.
W. C. RINEHART, Asst. Gen. Pass. Agt.
CLEVELAND, OHIO.

SOUTHERN PEOPLE, TOURISTS, TRAVELERS & BUSINESS MEN

SHOULD STOP AT

THE Beautiful and Elegant

"NIAGARA" HOTEL,

Front and Porter Ave. BUFFALO, N. Y.

The Most Elegant Hotel in America. Situated commanding a beautiful view of Lake Erie and Niagara River. Spacious conservatory filled with rare exotics. Special rates made for parties remaining one week or longer. Hotel particularly well located for business men and the families. LATE DINNERS, MUSIC.

RATES—\$4.00 a day and upwards (American Plan.)

Telegraph for accommodations in advance at our expense.

HENRY F. ROESSER, Manager.

Colonnade Hotel,
Chestnut St., Cor. 15th,
PHILADELPHIA.
H. J. & G. R. CRUMP.

A FAVORITE RESORT
FOR ALL
SOUTHERN TRAVEL.

Look Carefully through this paper and

you may find an advertisement of some

machinery or other goods that you are in

need of. Preserve this copy for future reference

ERIE RAILWAY.

Colonnade Hotel,
Chestnut St., Cor. 15th,
PHILADELPHIA.
H. J. & G. R. CRUMP.

A FAVORITE RESORT
FOR ALL
SOUTHERN TRAVEL.

Look Carefully through this paper and

you may find an advertisement of some

machinery or other goods that you are in

need of. Preserve this copy for future reference

ERIE RAILWAY.

Colonnade Hotel,
Chestnut St., Cor. 15th,
PHILADELPHIA.
H. J. & G. R. CRUMP.

A FAVORITE RESORT
FOR ALL
SOUTHERN TRAVEL.

Salley &.....
Piano Iron, Ohio Tool Co.....
Piano Iron, Sandusky Tool Co.....
Middlesex Mfg. Co., single and cut.....
Middlesex Mfg. Co., double.....

Button's Patent.....
Hall's Pat. Compound Lever Cutting Nipper.....
No. 2, 3 in. \$13.50; No. 4, 7 in. \$19.00.....
Acme Combined Filer and Wire Cutter.....
Acme 6-inch, \$12; 8-inch, \$15; 10-inch, \$24.....
Acme Cutting Nipper, 12-inch, \$15; 14-inch, \$20.....
10-inch, \$17.75; 8-inch, \$11.50; 6-inch, \$11.50 each.....

Diston's.....
Stanley R. & L. Co.'s Pat. Adjustable.....
Stanley R. & L. Co.'s Non-Adjustable.....
Chapin's Patent Adjustable.....
Chapin's Non-adjustable.....
Standard Rule Co.'s New Adjustable.....
Standard Rule Co.'s Non-Adjustable.....
Pocket Levels.....

Shepard's "Queen City".....
Avery Revolving Pencil.....

Sliding Door, Wrought Brass.....
Sliding Door, Brass and Wrt. Iron.....
Sliding Door, Iron, Painted.....
Barn Door.....
R. D. for N. E. Hangers—Small, Med. Large.....
For 100 feet.....

Iron and Tinned, new list, Nov. 17, 1887.....
In bulk, new list, Dec. 10, 1887.....
Copper Rivets and Butts.....
No. 1.....
No. 2.....
No. 3.....
No. 4.....
No. 5.....
No. 6.....
No. 7.....
No. 8.....
No. 9.....
No. 10.....
No. 11.....
No. 12.....
No. 13.....
No. 14.....
No. 15.....
No. 16.....
No. 17.....
No. 18.....
No. 19.....
No. 20.....
No. 21.....
No. 22.....
No. 23.....
No. 24.....
No. 25.....
No. 26.....
No. 27.....
No. 28.....
No. 29.....
No. 30.....
No. 31.....
No. 32.....
No. 33.....
No. 34.....
No. 35.....
No. 36.....
No. 37.....
No. 38.....
No. 39.....
No. 40.....
No. 41.....
No. 42.....
No. 43.....
No. 44.....
No. 45.....
No. 46.....
No. 47.....
No. 48.....
No. 49.....
No. 50.....
No. 51.....
No. 52.....
No. 53.....
No. 54.....
No. 55.....
No. 56.....
No. 57.....
No. 58.....
No. 59.....
No. 60.....
No. 61.....
No. 62.....
No. 63.....
No. 64.....
No. 65.....
No. 66.....
No. 67.....
No. 68.....
No. 69.....
No. 70.....
No. 71.....
No. 72.....
No. 73.....
No. 74.....
No. 75.....
No. 76.....
No. 77.....
No. 78.....
No. 79.....
No. 80.....
No. 81.....
No. 82.....
No. 83.....
No. 84.....
No. 85.....
No. 86.....
No. 87.....
No. 88.....
No. 89.....
No. 90.....
No. 91.....
No. 92.....
No. 93.....
No. 94.....
No. 95.....
No. 96.....
No. 97.....
No. 98.....
No. 99.....
No. 100.....

Stair, Brass.....
Stair, Black Walnut.....

Chapin's.....
Standard.....
Stanley.....
Stevens & Co.....
Stevens & Co. Miscellaneous.....

Self-Heating, Charcoal.....
Mrs. Port's Irons.....
Enterprise Star Irons, new list, July 10, 1887.....
Comb'd Filer and Sash Iron.....
Common Sash Iron.....

Reader & Adamson's Flint, 100 lb.....
Reader & Adamson's Flint, 50 lb.....
Reader & Adamson's Flint, 25 lb.....
Reader & Adamson's Flint, 12 1/2 lb.....
Reader & Adamson's Flint, 6 1/4 lb.....
Reader & Adamson's Flint, 3 1/8 lb.....
Reader & Adamson's Flint, 1 5/16 lb.....
Reader & Adamson's Flint, 7/16 lb.....
Reader & Adamson's Flint, 1/2 lb.....
Reader & Adamson's Flint, 3/4 lb.....
Reader & Adamson's Flint, 1 lb.....
Reader & Adamson's Flint, 1 1/4 lb.....
Reader & Adamson's Flint, 1 1/2 lb.....
Reader & Adamson's Flint, 1 3/4 lb.....
Reader & Adamson's Flint, 2 lb.....
Reader & Adamson's Flint, 2 1/4 lb.....
Reader & Adamson's Flint, 2 1/2 lb.....
Reader & Adamson's Flint, 2 3/4 lb.....
Reader & Adamson's Flint, 3 lb.....
Reader & Adamson's Flint, 3 1/4 lb.....
Reader & Adamson's Flint, 3 1/2 lb.....
Reader & Adamson's Flint, 3 3/4 lb.....
Reader & Adamson's Flint, 4 lb.....
Reader & Adamson's Flint, 4 1/4 lb.....
Reader & Adamson's Flint, 4 1/2 lb.....
Reader & Adamson's Flint, 4 3/4 lb.....
Reader & Adamson's Flint, 5 lb.....
Reader & Adamson's Flint, 5 1/4 lb.....
Reader & Adamson's Flint, 5 1/2 lb.....
Reader & Adamson's Flint, 5 3/4 lb.....
Reader & Adamson's Flint, 6 lb.....
Reader & Adamson's Flint, 6 1/4 lb.....
Reader & Adamson's Flint, 6 1/2 lb.....
Reader & Adamson's Flint, 6 3/4 lb.....
Reader & Adamson's Flint, 7 lb.....
Reader & Adamson's Flint, 7 1/4 lb.....
Reader & Adamson's Flint, 7 1/2 lb.....
Reader & Adamson's Flint, 7 3/4 lb.....
Reader & Adamson's Flint, 8 lb.....
Reader & Adamson's Flint, 8 1/4 lb.....
Reader & Adamson's Flint, 8 1/2 lb.....
Reader & Adamson's Flint, 8 3/4 lb.....
Reader & Adamson's Flint, 9 lb.....
Reader & Adamson's Flint, 9 1/4 lb.....
Reader & Adamson's Flint, 9 1/2 lb.....
Reader & Adamson's Flint, 9 3/4 lb.....
Reader & Adamson's Flint, 10 lb.....
Reader & Adamson's Flint, 10 1/4 lb.....
Reader & Adamson's Flint, 10 1/2 lb.....
Reader & Adamson's Flint, 10 3/4 lb.....
Reader & Adamson's Flint, 11 lb.....
Reader & Adamson's Flint, 11 1/4 lb.....
Reader & Adamson's Flint, 11 1/2 lb.....
Reader & Adamson's Flint, 11 3/4 lb.....
Reader & Adamson's Flint, 12 lb.....
Reader & Adamson's Flint, 12 1/4 lb.....
Reader & Adamson's Flint, 12 1/2 lb.....
Reader & Adamson's Flint, 12 3/4 lb.....
Reader & Adamson's Flint, 13 lb.....
Reader & Adamson's Flint, 13 1/4 lb.....
Reader & Adamson's Flint, 13 1/2 lb.....
Reader & Adamson's Flint, 13 3/4 lb.....
Reader & Adamson's Flint, 14 lb.....
Reader & Adamson's Flint, 14 1/4 lb.....
Reader & Adamson's Flint, 14 1/2 lb.....
Reader & Adamson's Flint, 14 3/4 lb.....
Reader & Adamson's Flint, 15 lb.....
Reader & Adamson's Flint, 15 1/4 lb.....
Reader & Adamson's Flint, 15 1/2 lb.....
Reader & Adamson's Flint, 15 3/4 lb.....
Reader & Adamson's Flint, 16 lb.....
Reader & Adamson's Flint, 16 1/4 lb.....
Reader & Adamson's Flint, 16 1/2 lb.....
Reader & Adamson's Flint, 16 3/4 lb.....
Reader & Adamson's Flint, 17 lb.....
Reader & Adamson's Flint, 17 1/4 lb.....
Reader & Adamson's Flint, 17 1/2 lb.....
Reader & Adamson's Flint, 17 3/4 lb.....
Reader & Adamson's Flint, 18 lb.....
Reader & Adamson's Flint, 18 1/4 lb.....
Reader & Adamson's Flint, 18 1/2 lb.....
Reader & Adamson's Flint, 18 3/4 lb.....
Reader & Adamson's Flint, 19 lb.....
Reader & Adamson's Flint, 19 1/4 lb.....
Reader & Adamson's Flint, 19 1/2 lb.....
Reader & Adamson's Flint, 19 3/4 lb.....
Reader & Adamson's Flint, 20 lb.....
Reader & Adamson's Flint, 20 1/4 lb.....
Reader & Adamson's Flint, 20 1/2 lb.....
Reader & Adamson's Flint, 20 3/4 lb.....
Reader & Adamson's Flint, 21 lb.....
Reader & Adamson's Flint, 21 1/4 lb.....
Reader & Adamson's Flint, 21 1/2 lb.....
Reader & Adamson's Flint, 21 3/4 lb.....
Reader & Adamson's Flint, 22 lb.....
Reader & Adamson's Flint, 22 1/4 lb.....
Reader & Adamson's Flint, 22 1/2 lb.....
Reader & Adamson's Flint, 22 3/4 lb.....
Reader & Adamson's Flint, 23 lb.....
Reader & Adamson's Flint, 23 1/4 lb.....
Reader & Adamson's Flint, 23 1/2 lb.....
Reader & Adamson's Flint, 23 3/4 lb.....
Reader & Adamson's Flint, 24 lb.....
Reader & Adamson's Flint, 24 1/4 lb.....
Reader & Adamson's Flint, 24 1/2 lb.....
Reader & Adamson's Flint, 24 3/4 lb.....
Reader & Adamson's Flint, 25 lb.....
Reader & Adamson's Flint, 25 1/4 lb.....
Reader & Adamson's Flint, 25 1/2 lb.....
Reader & Adamson's Flint, 25 3/4 lb.....
Reader & Adamson's Flint, 26 lb.....
Reader & Adamson's Flint, 26 1/4 lb.....
Reader & Adamson's Flint, 26 1/2 lb.....
Reader & Adamson's Flint, 26 3/4 lb.....
Reader & Adamson's Flint, 27 lb.....
Reader & Adamson's Flint, 27 1/4 lb.....
Reader & Adamson's Flint, 27 1/2 lb.....
Reader & Adamson's Flint, 27 3/4 lb.....
Reader & Adamson's Flint, 28 lb.....
Reader & Adamson's Flint, 28 1/4 lb.....
Reader & Adamson's Flint, 28 1/2 lb.....
Reader & Adamson's Flint, 28 3/4 lb.....
Reader & Adamson's Flint, 29 lb.....
Reader & Adamson's Flint, 29 1/4 lb.....
Reader & Adamson's Flint, 29 1/2 lb.....
Reader & Adamson's Flint, 29 3/4 lb.....
Reader & Adamson's Flint, 30 lb.....
Reader & Adamson's Flint, 30 1/4 lb.....
Reader & Adamson's Flint, 30 1/2 lb.....
Reader & Adamson's Flint, 30 3/4 lb.....
Reader & Adamson's Flint, 31 lb.....
Reader & Adamson's Flint, 31 1/4 lb.....
Reader & Adamson's Flint, 31 1/2 lb.....
Reader & Adamson's Flint, 31 3/4 lb.....
Reader & Adamson's Flint, 32 lb.....
Reader & Adamson's Flint, 32 1/4 lb.....
Reader & Adamson's Flint, 32 1/2 lb.....
Reader & Adamson's Flint, 32 3/4 lb.....
Reader & Adamson's Flint, 33 lb.....
Reader & Adamson's Flint, 33 1/4 lb.....
Reader & Adamson's Flint, 33 1/2 lb.....
Reader & Adamson's Flint, 33 3/4 lb.....
Reader & Adamson's Flint, 34 lb.....
Reader & Adamson's Flint, 34 1/4 lb.....
Reader & Adamson's Flint, 34 1/2 lb.....
Reader & Adamson's Flint, 34 3/4 lb.....
Reader & Adamson's Flint, 35 lb.....
Reader & Adamson's Flint, 35 1/4 lb.....
Reader & Adamson's Flint, 35 1/2 lb.....
Reader & Adamson's Flint, 35 3/4 lb.....
Reader & Adamson's Flint, 36 lb.....
Reader & Adamson's Flint, 36 1/4 lb.....
Reader & Adamson's Flint, 36 1/2 lb.....
Reader & Adamson's Flint, 36 3/4 lb.....
Reader & Adamson's Flint, 37 lb.....
Reader & Adamson's Flint, 37 1/4 lb.....
Reader & Adamson's Flint, 37 1/2 lb.....
Reader & Adamson's Flint, 37 3/4 lb.....
Reader & Adamson's Flint, 38 lb.....
Reader & Adamson's Flint, 38 1/4 lb.....
Reader & Adamson's Flint, 38 1/2 lb.....
Reader & Adamson's Flint, 38 3/4 lb.....
Reader & Adamson's Flint, 39 lb.....
Reader & Adamson's Flint, 39 1/4 lb.....
Reader & Adamson's Flint, 39 1/2 lb.....
Reader & Adamson's Flint, 39 3/4 lb.....
Reader & Adamson's Flint, 40 lb.....
Reader & Adamson's

IRON & STEEL ROOFING

CORRUGATED & CRIMPED SIDING, CEILING ETC., MANUFACTURED BY W. G. HYNDMAN & CO., CINCINNATI, OHIO

SCREW DRIVERS.

Douglas Mfg. Co.	dis 50
Diason's	dis 45
Coville Mfg. Co.	dis 70
Stanley Rule & Level Co.'s Var. Hds.	dis 60
Stanley Rule & Level Co.'s Black Hds.	dis 50
Ratchet	dis 35
Clark's Patent	dis 25
Shepardson	dis 25

SPOKE TRIMMERS.

Bossey's	dis 50
Seares	dis 50
Ives	dis 50
Douglas	dis 50

SILVER PLATED WARE.

Wm. Rogers Mfg. Co.	dis 50
Holmes, Booth & Hayden	dis 50
Wallace's Steel Silver Plated	dis 50
Rogers Bros 1847	dis 50
C. Rogers & Bro.	dis 50

SCREWS.

Standard new list, March 1.	
Flat Head Bright	dis 50
Round Head Bright	dis 40
Flat Head Bright	dis 40
Round Head Bright	dis 35
Flat Head Bright (add 5¢ to net)	dis 50
Brass and Silver Capped	dis 40
Japanese Flat Head	dis 40
Coach, Patent Gimlet Point	dis 75
Coach, Common or Lag	dis 75
Bed	dis 50
Machines, Flat Head, Iron	dis 50
Machines, Round Head, Iron	dis 50
Bench, Iron	dis 50
Bench, Wood, Bench	dis 50
Bench, Wood, Hickory	dis 50
Hand, Wood	dis 50
Hand Rail, Sargent's	dis 50
Hand Rail, Humason, Backley & Co.	dis 50
Hand Rail, Am. Screw Co. list Jan. 1, '84	dis 50
Jack (Walton's)	dis 50

SCREEN FRAMES AND VENTURES.

Standard Window Screens No. 1	dis 50
Door	dis 50
Window Corner Irons, No. 1	dis 50
Door	dis 50
Door Latches, 1/2 dozen	dis 50
Porter's Patent Window and Door Screens	dis 50

FORTE'S PATENT WINDOW AND DOOR SCREENS.

No. 1. Set for Window	dis 50
No. 1 1/2. " " "	dis 50
No. 2. " " "	dis 50
No. 3. " " "	dis 50
No. 4. " " "	dis 50
No. 5. " " "	dis 50
No. 6. " " "	dis 50
No. 7. " " "	dis 50
No. 8. " " "	dis 50
No. 9. " " "	dis 50

SHARP AND SCISSORS.

American (Cast) Iron	dis 50
Pruning	dis 50
Barnard's Lamp Trimmers	dis 50
Tinsmiths	dis 50
Seymour's	dis 50
Jersey Shears	dis 50
W. & S. M. Nickle	dis 50
O. S. Co. Brand	dis 50
Full Nickel	dis 50
Jap. Handles, Nickel Blade	dis 50

SHARPENERS.

Sliding Door, M. W. & Co., List	dis 50
Sliding Door, R. & E. list	dis 50
Sliding Door, Patent Roller	dis 50
Sliding Door, Pt. Roller, Hatfield's	dis 50
Sliding Door, Russell's and Friction	dis 50

SHOVELS AND SPADERS.

Ames, New List, November 1, 1883	dis 50
Oriskany	dis 50
Remington's (Lowman's) Patent	dis 50
Rowland's	dis 50
Lippincott, new list	dis 50
Husky, Sims & Co.	dis 50

SILVER PLATED HOLLOW WARE.

Wm. Rogers Mfg. Co.	dis 50
Meriden Britannia Co.	dis 50

SEWING MACHINES AND COVERS.

Cover's Soldering Irons	dis 50
Cover's Adjustable Covers	dis 50

SPOONS.

Britannia	dis 50
Tinned, Iron, Table and Tea	dis 50
Tinned Iron Hasting	dis 50
German Silver	dis 50

STONES.

Windsor No. 1, 4c; Am. 5c	dis 50
Sand Stone	dis 50
Washita Stone	dis 50
Washita Stone, Slip	dis 50
Arkansas	dis 50

STEEL.

Iron	dis 50
Nickel Plated	dis 50
Try Square and T Bevels	dis 50
Water's Try Square and T Bevels	dis 50
Avery Flush Bevel Squares	dis 50
Avery Flush Bevel Protractors	dis 50

TACKS, NAILS, ETC.

American Iron Carpet Tacks, all kinds	dis 50
Steel Carpet Tacks, all kinds	dis 50
Sweden Iron Carpet Tacks, all kinds	dis 50
Sweden Iron Tacks	dis 50
Sweden Iron Upholsterers' Tacks	dis 50
Tinned Sweden Iron Tacks	dis 50
Tinned Sweden Iron Upholsterers' Tacks	dis 50
American Iron Cut Tacks	dis 50
Crimp and Lace Tacks	dis 50

FOR ALL KINDS IRON AND STEEL

ROOFING

CEILING, SIDING, IRON DOORS, SHUTTERS

ADDRESS SCOTT & CO. CINCINNATI, OHIO.

Hardware and Gun Trade: Quote our

\$5 Clay Pigeon Trap.

Electrotypes furnished gratis for catalogues.

Liberal commissions. 50-page book free. Address

LIGOWSKY CLAY PIGEON CO., CINCINNATI, O.

WHICH? BUTTER OR CHEESE.

If either, or both, send for J.S. CARTER'S Illustrated Catalogue, which gives full information of latest and best method and appliances for making Cheese or Butter, from the largest factory to the smallest dairy.

System of Butter Making is a Success.

JOHN S. CARTER, Syracuse, N. Y.

ASHLEY'S Bromine and Arsenic WATER.

NATURE'S OWN REMEDY.

For Bright's Disease, Rheumatism, Syphilis, Erysipelas, Old Sores, Ulcers, Tetters, Salt Rheum, Scald Head, Eczema, Skin Diseases, Gravel, Female Diseases, Dyspepsia, Nervousness, Heartburn, Restlessness, etc.

The water may be taken internally or applied externally, or both ways as the case may require. Contains 50 per cent. more arsenic than any water analyzed.

It will remove pimples, blotches, and all eruptions of the skin by simply moistening the skin with it two or three times a day.

Science has never produced a compound that will equal its effects in cleansing and beautifying the skin. A complexion that is repellant on account of pimples, blotches, or any eruptive skin disease is transformed into one of beauty and attractiveness by its magic touch.

TESTIMONIALS NOW ON FILE.

I regard it as being one of the finest mineral waters in the world. It is a splendid tonic for J. B. CHILDERS, Bristol, Tenn. I used it as a blood purifier with very satisfactory results. H. E. JONES, Assistant Cashier Bank, Bristol, Tenn. Out of the hundreds of bottles sold by us we have not heard a complaint. W. H. FILLINGER & BRO., Bristol, Tenn. My wife is charmed with it. A. E. DICKINSON, Editor Religious Herald, Richmond, Va. Rev. H. Burroughs, of Norfolk, Va., one of the most prominent Baptist ministers in the South, says: The Ashley Bromine and Arsenic Water has been of very decided benefit to me in a sore and long affliction from obstinate and painful eczema. I find the water, too, so generally conducive to health and so pleasant to the taste, that I use it as a daily drink. J. L. Davies, Knoxville, Tenn., says: Having suffered from inflammatory rheumatism for two months, I can testify that Ashley's Bromine and Arsenic Water has certainly relieved me. Chicago, April 15, 1884.—Ashley's Bromine and Arsenic Springs Co., Bristol, Tenn.

GENTLEMEN—Two cases of your water cured me of the most aggravated case of Dyspepsia, to which human was ever subjected. I can eat anything now from a Rice Bird on toast to a Georgia beef-steak.

H. C. BOYD, Jr., Southern Agent for Armour. Jas. S. Kennedy, D. D., Planterburg, Va., says: My daughter was seriously ill and a great sufferer from bladder and kidney trouble. Thinking that Ashley's Bromine and Arsenic Water would relieve her, I procured one bottle, the use of which gave decided relief. Then I ordered a case. She continued its use for several weeks and is entirely cured. Another instance came under my observation, in which the use of this water in small quantities at first proved a signal cure for inflamed eyes. It was a chronic case, and threatened the utter loss of sight, and indeed of the eye as well. In a few months the patient was completely restored. She had been under the treatment of two experienced and distinguished oculists without any relief whatever. I believe your water possesses some invaluable medical qualities.

The water is put up in cases of twelve half gallon bottles. The water is bottled at the spring and sealed air-tight.

Price per Bottle, \$ 50

Price per Case, \$ 5.00

Send for Circulars.

ASHLEY BROMINE & ARSENIC WATER CO.

BRISTOL, TENN.



Office and Warerooms, - 9 N. Liberty Street,

BALTIMORE, MD.

MANUFACTURERS OF
TACKS AND NAILS
of every style and size
Prices and Samples on
Application.
MARYLAND TACK CO.
BALTIMORE, MD.

McShane & Bell's Foundry

Flat Iron and Brass Castings Made to Order.

Manufacture those celebrated Bells for Tower Clocks, Court-Houses, Cotton Mills, Factories, &c. Prices and catalogues sent free. Address

H. McSHANE & CO.

Baltimore, Md.

Mention this Paper.



MANUFACTURER OF

STEEL WHEEL GLASS CUTTERS AND HARDWARE NOVELTIES,

821 Cherry St., Phila., Pa.

REVERSIBLE YERS STEEL WOOD TRACK HAY CARRIERS

TRADE MARK. A complete outfit. Easy to put up, always reliable and fully warranted to meet the wants of any farmer.

BEST HAY TOOLS IN THE MARKET.

MYERS' FORCE AND LIFT PUMPS

Simple, durable, powerful, easy to operate never affected by frost. Patent 614,888

VALVE will never corrode. Ask your dealer for our goods. Write for catalogue.

F. E. MYERS & BRO. ASHLAND, O.

GREATEST IMPROVEMENT OF THE AGE.

SHELLENBACK PULLEY LATHE.

Pulleys Turned and Bored Simultaneously.

The Greatest Labor-Saving Tool of the Age!

MANUFACTURED BY

RICHMOND CITY MILL WORKS,

—RICHMOND, INDIANA—

KEEP COOL.

A comfortable temperature secured in all workrooms, restaurants, etc., by use of the

Clark Light-Running Adjustable Wing Exhaust Fans. Also heavier Fans for Dryer.

Catalogue free.

G. P. CLARK, Windsor Lock, Ct.

WIRE RAILING

and Ornamental Wire Works.

DUFUR & CO. 113 & 115 N. Howard St., Baltimore.

Wire Railing for Cemeteries, Lawns, Gardens, Offices and Balconies; Window Guards, Tree Guards, Wire Cloth, Sieves, Fenders, Cages, Saws and Coal Screens, Iron Bedsteads, Chairs, &c

Baltimore Wire Works.

ESTABLISHED 1793.

H. BALDERSTON & SON,

122 S. Balport Street, near Pratt, BALTIMORE MD.

MANUFACTURERS OF

Wire Grating for Windows and Office Railing, Wire Screens for Banks, Screens for Skylights and general Elevators.

"THE OHIO"

Shears and Scissors

ARE THE BEST.

Address for terms and discounts

THE OHIO CO-OPERATIVE SHEAR CO.

ELYRIA, OHIO.

Tinned Climp and Lace Tacks..... 67 1/2

Copper nails..... 33 1/2

Copper Nailing and Trunk Nails..... 33 1/2

Cigar Box Nails..... 45

Flashing Nails..... 60

Trunk and Clout Nails..... 60

Tinned Trunk and Clout Nails..... 60

Chair Nails..... 60

Slac Glaciers' Points..... 60

Common and Patent Straps..... 60

Common and Patent Tacks..... 60

Tinned Capped Trunk Nails..... 60

Looking Glass Tacks..... 60

Picture Frame Tacks..... 60

Leathered Carpet Tacks..... 60

Brush Tacks..... 60

TAP BORERS.

Common and Ring..... dis 50

Ives' Tap Borers..... dis 50

Enterprise Mfg. Co..... dis 50

TOBACCO CUTTERS.

Enterprise Mfg. Co (Champion)..... dis 50

Wood Bottom..... dis 50

All Iron..... dis 50

Wilson's..... dis 50

THERMOMETERS.

Tis Case..... dis 50

Storm Glasses..... dis 50

TIN CASES.

Wimsted..... dis 50

TRAPS.

Game, Newhouse..... dis 50

Game, Onelda Pattern..... dis 50

Game, Blake's Patent..... dis 50

Mouse, Wood, Choker..... dis 50

Mouse, Round Wire..... dis 50

Mouse, Cage, Wire..... dis 50

Mouse, Catch-em-alive..... dis 50

Cyclon Mouse..... dis 50

Ideal Mouse..... dis 50

Boss..... dis 50

Bat, "Decoy"..... dis 50

Delusion Mouse, per doz..... dis 50

Ideal..... dis 50

TROWELS.

Lothrop's Brick and Plastering..... dis 50

Bright and Plastering..... dis 50

Clement & Maynard's..... dis 50

Worrall's Brick..... dis 50

Brades & Walby's..... dis 50

Garden..... dis 50

Rose's Brick..... dis 50

TRUCKS (WAREHOUSE, ETC.)

Handy Truck..... dis 50

Penfield Block Co's list, 1884..... dis 50

Peasless, with Cogs, No. 3..... dis 50

Peasless, with Cogs, No. 4..... dis 50

Eureka, No. 2..... dis 50

VISES.

Cheney's Combined Vise and Anvil..... dis 50

Solid Box—Wilson's..... dis 50

Trenton..... dis 50

Iron City Tool Works..... dis 50

Manner Drill Mfg. Co's—

Machinist's Vise..... dis 50

Bench—Wilson's..... dis 50

Trenton..... dis 50

Parker's..... dis 50

Premier..... dis 50

Bossey's..... dis 50

Well Wheels..... dis 50

Stephen's Patent Vise..... dis 50

WIRE.

Brass and Copper, list of Jan. 17, 1884..... dis 50

Bright and Annealed..... dis 50

Bright and Annealed..... dis 50

Bright and Annealed..... dis 50

Coppered..... dis 50

Galvanized, No. 6 to 18..... dis 50

Tinned, No. 6 to 18..... dis 50

Tinned Broom Wire, No. 18 to 25..... dis 50

Annealed Fence, No. 28..... dis 50

Annealed Fence, No. 28..... dis 50

Fence Staples, Galvanized..... dis 50

Fence Staples, Galvanized..... dis 50

Galvanized Barbed Fence..... dis 50

Buck Thorn Galvanized..... dis 50

Picture Wire..... dis 50

Clothes Line Wire, Galvanized..... dis 50

Wire Cloth, green, drab and black..... dis 50

WIRE NAILS.

Standard Penny Nails..... dis 50

Wire Nails List, November 16, 1883..... dis 50

WIREWORKS.

American Adjustable..... dis 50

Baxter's Adjustable "S" list Jan. 1, 1884..... dis 50

Baxter's Diagonal..... dis 50

Coor's Genuine..... dis 50

Coor's "Mechanics"..... dis 50

Coor's Pattern, Malleable..... dis 50

Coor's Pattern, Wrought..... dis 50

Girard Standard..... dis 50

Girard Agl..... dis 50

Always Ready..... dis 50

Collins' Wrenches..... dis 50

WIREWORKS.

Universal, XX, No. 2 1/2..... dis 50

Universal, XX, No. 3..... dis 50

Universal, XX, No. 3 1/2..... dis 50

Universal, XX, No. 4..... dis 50

Universal, XX, No. 5..... dis 50

Universal, XX, No. 6..... dis 50

Universal, XX, No. 7..... dis 50

Universal, XX, No. 8..... dis 50

Universal, XX, No. 9..... dis 50

Universal, XX, No. 10..... dis 50

Universal, XX, No. 11..... dis 50

Universal, XX, No. 12..... dis 50

Universal, XX, No. 13..... dis 50

Universal, XX, No. 14..... dis 50

Universal, XX, No. 15..... dis 50

Universal, XX, No. 16..... dis 50

Universal, XX, No. 17..... dis 50

Universal, XX, No. 18..... dis 50

Universal, XX, No. 19..... dis 50

Universal, XX, No. 20..... dis 50



THE CINCINNATI CORRUGATING COMPANY,
SOLE MANUFACTURERS OF THE
CELEBRATED PATENT EDGE
CORRUGATED IRON,

The only form thoroughly effective for roofing.
Also the most improved forms of Plain and Corrugated Iron and Steel Roofings, Siding, Ceilings, Metallic Lath, etc., with the largest and most complete stocks to be found anywhere.

Our prompt shipments are proverbial. Owners and builders should write at once and get our best discounts.

The Cincinnati Corrugating Co.

141 EGGLESTON AVE., CINCINNATI, O.

HOLTON IRON ROOFING
ROOFING SIDING CEILING & C
NEW LISBON, O.
AGENTS WANTED EVERYWHERE

THE CANTON STEEL ROOFING CO., Canton, Ohio.
FORMERLY CANTON IRON ROOFING CO.

Folded Lock Seam, Genuine
Steel Roofing
FIRE-PROOF SHUTTERS.
10 Foot Seamless Eave Trough.
Send for catalogue, price-list and samples.

Corrugated Iron,
Crimped Edge Iron Roofing and Siding, Beaded Iron Siding and Ceiling, Water-Proof Sheathing Paper, Roof Paint, &c.

CAMBRIDGE ROOFING COMPANY, Cambridge, Ohio.

MANUFACTURERS OF
Plain Rolled, Crimped Edge, Corrugated and Beaded Roofing, Siding and Ceiling.
Pure Steel a Specialty.
Send for Descriptive Catalogue.

IRON & STEEL ROOFING,
"GLOBE STANDING SEAM"
"EXCELSIOR V CRIMPED"
"READY ROLLED CAPPED."
GLOBE IRON ROOFING & CORRUGATING CO., CINCINNATI, O.

The Kanneberg Roofing Co., Canton, O.

(The Originators of Strictly Genuine Steel Roofing.) MANUFACTURERS OF
The KANNEBERG PATENT,
Latest Improved
Folded Lock Seam,
Strictly Genuine Steel Roofing.
Write for Catalogue, Price List and Samples.

CORRUGATED IRON,
(FOUR SIZES OF CORRUGATIONS.)
Crimped Edge Iron Roofing and Siding, Beaded Iron Siding and Ceiling, Water-Proof Building Paper, Ready Mixed Paints, Etc.

THE BERGER MANUFACTURING COMPANY, CANTON, O.

SEND FOR ILLUSTRATED CATALOGUE, SAMPLES & PRICES.
BERGER'S LOCK SEAM STEEL ROOFING
DON'T make arrangements for ROOFING 'till you have seen ours.
It Exceeds all other Metal Roofs.

THOMPSON MANUFACTURING CO.
CLEVELAND, OHIO.

CORRUGATED IRON
FOR ROOFING, SIDING, AND CEILING.
FIVE SIZES OF CORRUGATIONS
CURVED OR STRAIGHT.

We want to mail you our **ILLUSTRATED CATALOGUE** (34 pages), the finest ever issued by a roofing company.

PATENTS
SECURED FOR INVENTORS.
NO ATTORNEYS' FEE IN ADVANCE.
NO CHARGE FOR PRELIMINARY EXAMINATION. SEND MODEL OR DRAWING.

WRITE TO US. JOHN O. HIGDON. ESTABLISHED 1878. HIGHEST REFERENCES.

HIGDON & HIGDON, Solicitors of Patents,
(Also Kansas City, Mo.) St. Cloud Building, Opp. U. S. Patent Office, WASHINGTON, D. C.

We have protected the name of the MANUFACTURERS' RECORD and many others.

FIRE-PROOF WATER-PROOF WIND-PROOF
GUTTA PERCHA ROOFING!
The Great Roofing for the South. Send for Southern Manufacturers' References. For Steep or Flat Roofs, Factories, Mills, Lumber Sheds, etc. Send for Catalogue, Testimonials, Samples, etc.
Empire Paint & Roofing Co., 1128 & 1130 Race St., Philadelphia, Pa.

THE HARRINGTON & KING
MANUFACTURERS OF PERFORATED METALS FOR
ROOFING, SIDING, CEILING, AND FERTILIZING WORKS.
COTTON SEED, OIL-MILLS, RICE MILLS, SUGAR HOUSES, DISTILLERIES, PHOSPHATES, AND FERTILIZING WORKS.
METALS PERFORATED
MAIN OFFICE AND WORKS
224 & 226 NORTH UNION ST. CHICAGO, ILL. U.S.A.

THE STILLMAN

◆ CLEVELAND, OHIO. ◆
Unsurpassed in its Elegance, Fine Cuisine and Table Service.
Only Fire-Proof Hotel in Cleveland.
Every room heated by Steam and lighted by Electric Light.
RATES \$3.50 TO \$5.00 PER DAY.
Elegant suites can be secured by addressing
J. WARREN COLEMAN, Jr., Manager.

LIFE INSURANCE AT ACTUAL COST.
Persons desirous of obtaining life insurance at actual cost should write for circulars to
SECURITY MUTUAL BENEFIT SOCIETY,
283 Broadway, New York.
This Society claims that for six years the cost to a member of middle age has been
Less than Twelve Dollars a Year
for each thousand dollars of insurance.

HARTFORD STEAM BOILER INSPECTION AND INSURANCE CO.
CONN.
Issues Policies of Insurance after Careful Inspection of the Boilers, covering Loss or damage to property, and Loss of Life and Personal Injury
ARISING FROM STEAM BOILER EXPLOSIONS.

Full information concerning the plan of the Company's operations can be obtained at the COMPANY'S OFFICE, Hartford, Conn., or at any Agency.

J. M. ALLEN, President.
J. B. PIERCE, Secretary.
W. B. FRANKLIN, Vice-Prest.
F. B. ALLEN, 2d Vice-Prest.

BOARD OF DIRECTORS:
NELSON HOLLISTER, of State Bank, Hartford.
FOR HENRY C. BOHNSON, Attorney-at-Law, Hartford.
HON. FRANCIS B. COLLEY, of the Nat. Exchange Bank, Hartford, Conn.
A. W. JILLSON, late Vice-Prest. Phoenix Fire Insurance Co., Hartford, Conn.
EDMUND A. STEDMAN, Treas. of the Fidelity Co., Hartford, Conn.
CLAY BUCKNER, Bridgeport, Conn.
GEORGE BURHAM, late in Locomotive Works, Phila.
HON. NATHANIEL SHIPMAN, Judge U. S. Circuit Court.
LAWFORD & McKIM, Ag'ts for Maryland, 22 S. Holiday St., Baltimore, Md.

Death of William Taylor.

William Taylor, senior member of the firm of William Taylor & Sons, proprietors of the Columbian Iron Works, and a well known citizen of Brooklyn, N. Y., died at his residence there on Monday evening, June 17th, at the age of 78 years. For 33 years he had been connected with the Columbian Iron Works, an immense establishment, of which he was the originator and capable head, and the products of which, in original and special machinery, have been distributed to every corner of the globe. Mr. Taylor came to this country from Manchester, Eng'land, in 1843, settled in Brooklyn and at once engaged in the iron business. He had associated with him as partners his sons, James A., William J. and Edwin S. Taylor, who, up to the time of his decease, comprised the firm. Mr. Taylor was a man of great activity, genial disposition, which made him hosts of friends, and ranked very high as an engineer and manufacturer. He was one of the original trustees of the New York and Brooklyn Bridge, and took great interest in that magnificent triumph of engineering skill. His funeral was largely attended, many of those present being men who fill the highest positions in his profession. The pallbearers were Capt. Ambrose Snow, Hon. J. S. T. Stranahan, Wright Duryea, Col. Andrew D. Baird, Frederick Scholes, Ex-Mayor James Howell, Isaac Carhart, James Van Wyck, Thomas F. Rowland, E. W. Bliss, Warren E. Hill, Marvin Cross, Ex-Mayor Daniel D. Whitney, Gen. Isaac S. Catlin, Edward D. White, Joseph F. Knapp, and William Marshall. Most of these gentlemen were associates of Mr. Taylor when a bridge trustee.

SOUTHERN MANUFACTURERS COMING TO THE FRONT.—The new oil company recently organized at Charlotte, N. C., have placed their order with the Standard Scale Co., Rome, Ga., for their entire outfit of scales. This order consisted of a large number of small scales, in addition to five of their new pattern iron frame railroad track scales. Great interest prevailed among the scale men as to who would be the successful competitor in securing this order, all the leading scale companies being represented, and as the contract was to be given entirely on the merits of the goods, it goes to show that Southern manufacturers of to-day can compete successfully with the world. The Standard Scale Co. make a specialty of railroad track scales, and report the following recent sales: A 36 foot railroad track scale to the Bessemer Furnace Co., a 73-foot railroad track scale to the S. F. & W. R. R., a 36 foot railroad track scale to the Soddy Coal Co., a 36-foot railroad track scale to the Bluffton Iron Co., a 36-foot railroad track scale to the Rome Rolling Mill Co. An entire outfit to the Chattanooga Agricultural Works, and a transportation scale to the Citico Furnace Co.

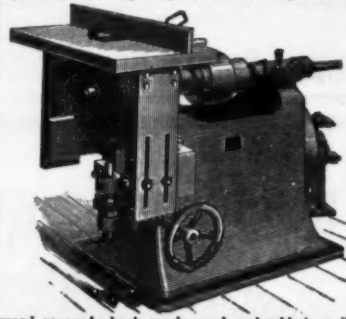
THE ELECTRIC RAILWAY, by Fred H. Whipple, is a very readable pamphlet. Chapter I treats of the historical development of the modern method of producing electricity, and the following fifteen chapters treat of the growth of electric knowledge and the increased use of electricity. Illustrations are given of the numerous electric railways now in use, and the overhead, conduit and storage systems are explained. One cannot fail to increase his knowledge of their wonderful force by a perusal of this pamphlet. Published at Detroit, Mich.

THE AMERICAN HOUSE, Boston, is adding every day to its fame and popularity as one of the best hotels in the East. There is no pretentious display, but everything is of the very best, and a desire to please is apparent in every department.

If you wish to keep posted on the progress of the South, read the **MANUFACTURERS' RECORD**. Price \$4.00 a year.

Emery Wheel Surfacing Machine.

Base of machine has sufficient flare to give solid floor foundation. Table is so supported that it cannot spring under heavy weights. Solid emery wheels or



wood covered wheels can be used, and table is easily adjusted to wearing away of wheel. Machine is well proportioned and thoroughly built. Write for circular. Springfield Glue & Emery Wheel Co., Springfield, Mass.



Bates' Hand Elevators.
Patented April 18, 1871. Reissued July 21, 1874.
OVER 6,000 IN USE.

Adapted for Warehouses, Stores, Factories, hotels, Public Institutions, and every place where merchandise, &c., is transferred from one story to another.

JAMES BATES, Patentee,
nos. 1 3 & 5 President Street, BALTIMORE

THE BRADSTREET Mercantile Agency

WAS ESTABLISHED IN 1849.

Is the oldest and financially the strongest organization of its kind, working in one interest and under one management, with more capital invested in the business, and expending more money every year for the collection and dissemination of its information than any similar institution in the world. Its reports are considered in the light of a guide by both investors and those contemplating the granting of credit. In addition to a large corps of skilled employees, more than one hundred thousand correspondents contribute the result of their investigation and opinions. Subscriptions are annual, and may commence at any time the subscriber elects. Details as to prices and terms will be furnished upon application.

CHARLES F. CLARK, President.
Baltimore Office—American Building.
H. KER-HAW, Supt.



FAST FLYING VIRGINIAN.

VESTIBULE SPECIAL

To CINCINNATI Without Change.

The entire train Lighted by Electricity and Heated by Steam drawn from the Engine IMMEDIATE CONNECTION IN UNION DEPOT FOR **INDIANAPOLIS, CHICAGO, ST. LOUIS,** AND ALL CITIES OF THE NORTHWEST AND SOUTHWEST.

VESTIBULE SLEEPERS FOR LOUISVILLE

CONNECTING FOR **NASHVILLE, MEMPHIS, and ALL POINTS in the South.** An additional FAST TRAIN, with Pullman Buffet Sleeper, arrives in Cincinnati in time for a morning Western Connection.

RATES OF FARE are as low as by any route. Before selecting your route, write for full information: you will save money and avoid frequent and unpleasant changes of cars. REMEMBER that the Chesapeake & Ohio R'y Co. can ticket you and transport you to any point **WEST, NORTHWEST or SOUTHWEST,** more cheaply and comfortably, with less number of changes, than any other route. **J. T. HARRAHAN, General Manager.** **H. W. FULLER, General Passenger Agent.** CINCINNATI, OHIO.



EAST-TENNESSEE-VIRGINIA-GEORGIA RY.

IS THE SHORT LINE

EAST and WEST, NORTH and SOUTH.

Daily Sleeping Car Service between

WASHINGTON and MEMPHIS, WASHINGTON and NEW ORLEANS, and Double Daily Service between

CINCINNATI and JACKSONVILLE.

THE SHORTEST ROUTE,

THE CHEAPEST ROUTE,

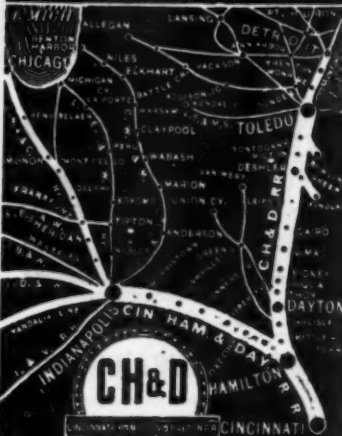
THE QUICKEST ROUTE.

THE BEST ROUTE.

H. W. WRENN, Gen'l Passenger and Ticket Agent, Knoxville, Tenn.
C. A. BENSCOTTER, A. G. P. A., Knoxville.
C. A. DESAUSSURE, A. G. P. A., Memphis.
S. H. HARDWICK, A. G. P. A., Atlanta.
RAY KNIGHT, A. G. P. A., Selma.

CH&D

CINCINNATI, HAMILTON & DAYTON.
THE THROUGH CAR LINE
FROM AND TO
Cincinnati, Indianapolis, Peoria,
Dayton, Chicago,
St. Louis, Toledo, Findlay,
and Detroit.



Parlor Chair Cars on Day and Sleepers on Night Trains "Year Round"
Reclining Chair Car Cincinnati to Decatur, Springfield & Peoria, Ills. and Keokuk, Iowa, Daily.

For full information, Tickets, Sleeping Car space, etc., inquire of or address:
W. H. FISHER, Gen'l Agent, Indianapolis, Ind.
JOHN HASTABLE, Dist. Pass. Agt., Toledo, O.
W. H. WHITTLESEY, Cent. Pass. Agt., Dayton, O.
H. J. RHEIN, Nur. Pass. Agt., Detroit, Mich.
WM. A. WIGGINS, So. Pass. Agt., Chattanooga, Tenn.
J. G. MASON, City Pass. Agt., Cincinnati, O.
Or, General Passenger Agent's Office, No. 200, W. 4th St., Cincinnati, O.
C. C. WAITE, CHAS. H. ROCKWELL,
V. P. & Gen'l Manager, Gen'l Pass. & Tkt. Agt.

THE BAY LINE

Fortress Monroe, Norfolk and the South.

The Bay Line comprises the New and Elegant Steamers "VIRGINIA," "CAROLINA" and "FLORIDA"

All the Comforts and Luxuries of a First-Class Hotel are afforded the traveler. Spacious and elegant parlors and 1st staterooms, furnished with an especial view to comfort. Unsurpassed Cuisine, which is made a specialty of this line. Elegant service and courteous attention. Steamer leave Baltimore daily (except Sundays) at 9 P. M. At Old Point Comfort is located the **SPLENDID HYGEIA HOTEL**, a delightful resort at all seasons of the year. For Tickets and information apply at Company's office.

157 W. BALTIMORE STREET, BALTIMORE.
Or on Board of Steamers.
D. J. HILL, Superintendent.
E. BROWN, General Ticket Agent.

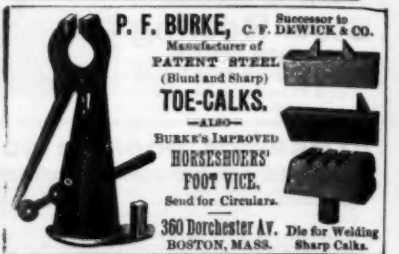
I DRINK WAFER!



FROM
"RUSTLESS IRON PIPES"

MADE BY THE
WELLS RUSTLESS IRON CO.

21 CLIFF ST. NEW YORK CITY.
SEND TO THEM FOR CATALOGUE.



P. F. BURKE, C. F. DEWICK & CO.
Manufacturers of
PATENT STEEL
(Blunt and Sharp)
TOE-CALKS.
—ALSO—
BURKE'S IMPROVED HORSESHOERS' FOOT VICE.
Send for Circulars.
360 DORCHESTER AV. DUE for Welding BOSTON, MASS. Sharp Calks.



Iron Working Machinery,

—INCLUDING—
Extension and Gap Lathes, Planers with Quick Return, Drills, &c., Hand Power Elevators with Patent Brake, Double Chain Screw Hoists, Overhead Tramway with Switch, Turntable and Geared Truck.
Gear Cutting a Specialty. Send for Estimates.
REPRESENTED BY:
J. O. MAYNARD, 19 Cortlandt St., New York.
C. E. KIMBALL, 93 Oliver Street, Boston, Mass.
W. BUCHNER, 202 Main St., Cincinnati, Ohio.



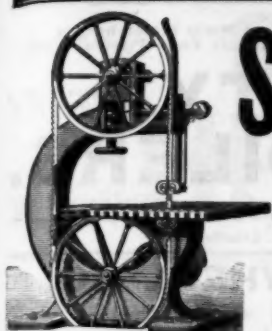
RYDER & DEARIE
WOOD ENGRAVERS & FINE COMMERCIAL PRINTERS.
PHOTO-ENGRAVING IN ALL ITS BRANCHES. Specialists in fine Machinery and general Wood Engraving, Portraits, Buildings, etc. Artistic designs in Letter and Bill Heads, Business Cards, Display Lettering for advertising purposes, etc. Best work. Lowest prices. Engraving at lowest rates. 91 WESTMINSTER STREET, PROVIDENCE, R. I.

The Jeffrey Mfg. Co.

121 West State St., Columbus, O.
MANUFACTURERS OF
ELEVATORS, CONVEYERS, DRIVING BELTS, for Handling



Barrels, Boxes, Bales, Grain, Coal, Ores, &c.
Illustrated Catalogue sent on application.
Correspondence solicited.
QUEEN LUBRICANT.—Hundreds of works are Cutting Threads, Tapping, Drilling, &c., at a cost of 5 cents per gallon. Established 1896. Sample at List Price. **EUREKA MFG. CO.**
Foot E. 6th Street, New York.



Standard Mfg. Co.

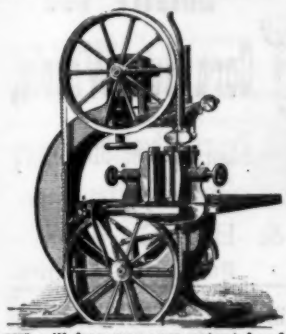
MOORE'S
HILL,
INDIANA.



\$85 will buy the best hand saw in the world.
\$100 will buy our new patent 40 inch band saw.

\$125 will buy the best Automatic Rip Sawing Machine, weather boarding attachment included, and 12 inch rip saw.

MANUFACTURERS OF

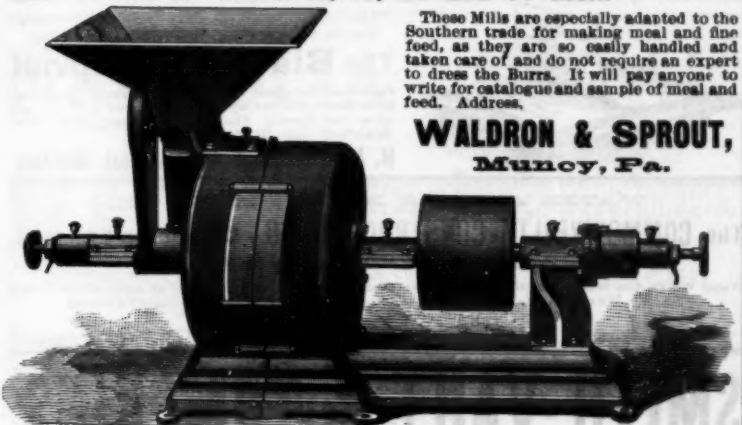


\$185 will buy our new patent band re-sawing machine.

High Grades OF Machinery.

FRENCH BURR MILLS,

FOUR SIZES—12, 16, 20 and 30 inch.



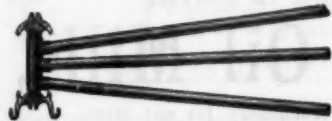
These Mills are especially adapted to the Southern trade for making meal and fine feed, as they are so easily handled and taken care of and do not require an expert to dress the Burrs. It will pay anyone to write for catalogue and sample of meal and feed. Address.

WALDRON & SPROUT,
Muncy, Pa.

MANUFACTURERS OF

French Burr Mills, Corn Ear Crushers and Hay Tools.

UDELL TOWEL ARM

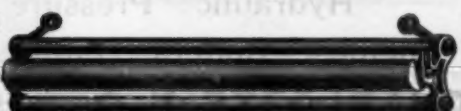


LATEST AND BEST IN THE
MARKET.

Walnut and Antique Oak Finish.

TOWEL ROLLERS IN GREAT VARIETY.

We also manufacture a full
line of ROPE REELS,
CLOTHES BARS,
HAT HOOKS,



EXTENSION BROOM HANDLES AND CLOTHES POLES,
and a large variety of goods for the HARDWARE AND WOODENWARE
TRADES Write for catalogue and prices.

Udell Woodenware Works, Indianapolis, Ind.

And 79 Reade Street, New York City.

Western Maryland R. R.

Short Freight Line to Westminster, Frederick, Taneytown and Hagerstown, Md.; Waynesboro, Chambersburg, Shippensburg, Hanover, Gettysburg and Carlisle, Pa.; also points on the Frederick Division P. R. R., Gettysburg & Harrisburg R. R., Harrisburg & Potomac R. R., Shenandoah Valley R. R., Norfolk & Western R. R. and connections, also route of

Great Southern Despatch.

All rail Fast Freight Line for Southern and Southwestern points, via Bristol, Tenn. Freight received in any quantity at Hillen Station, and in car loads at Fulton, Canton and Jackson's wharf. Shippers desiring information will be called on. Send postal card with address to

R. H. CRISWOLD,

G. F. A., Hillen Station, Baltimore, Md.

EMPLOYERS WILL PREVENT LOSS
BY ACCIDENTS TO
WORKMEN BY INSURING WITH

Employers' Liability Assurance Corporation.

Agent, G. W. S. HALL, Baltimore.
Firms with pay rolls of
over Sixty Million Dollars now protected



PREMIER FLOUR OF AMERICA.

Patapsco Flouring Mills.

ESTABLISHED 1774.

OUR PATENT ROLLER FLOURS

Are manufactured from the Choicest Wheat Obtainable, for which Baltimore as a market stands pre-eminent. Their superiority for Uniformity, Strength and Unapproachable Flavor has long been acknowledged. Our Patapsco Superlative Patent Stands Unrivaled. Of a RICH CREAMY COLOR, it makes a bread that will suit the most fastidious.

ASK YOUR GROCER FOR

PATAPSCO SUPERLATIVE PATENT, PATAPSCO FAMILY PATENT,
ROLANDO CHOICE PATENT, ORANGE GROVE EXTRA.

C. A. GAMBRILL MFG. CO.

Office, 214 Commerce Street, Baltimore, Md.

John Ryan Co.

TYPE FOUNDING and
ELECTROTYPING.
Printing Presses New and Second-Hand.
Printers' Materials.
PROMPT, ACCURATE and RELIABLE.

South and German Sts., BALTIMORE.
—LIBERAL TERMS.—

PIEDMONT AIR LINE.

RICHMOND & DANVILLE R.R. CO.

THE SHORT AND DIRECT LINE FROM

Washington, D. C., and Richmond, Va.,

To Atlanta, Augusta, Columbia, Asheville, Raleigh, Greensboro, Salisbury, Goldsboro, Birmingham, Montgomery, Vicksburg, Shreveport, Mobile, New Orleans, Texas, Mexico and California, and the South and Southwest.

DOUBLE DAILY, SOLID TRAINS between Washington and Atlanta.
Fullman's Palace Buffet and Drawing-Room Sleeping Cars without charge to Atlanta, New Orleans, Augusta, etc.

For maps, time-tables, rates of passage, freight, etc., apply to nearest Station Agent of the Piedmont Air Line, or to any Railroad Agent of principal lines North or South.

PEYTON RANDOLPH, General Manager.

SOL. HAAS, Traffic Manager.

JAS. L. TAYLOR, Gen. Pass. Agent.

Queen City Printing Ink Co.

CINCINNATI, OHIO.

WITH WHICH THIS PAPER IS PRINTED
IS MADE BY THE
THE INK QUEEN CITY PRINTING INK CO.
CINCINNATI, O.

MANUFACTURERS OF ALL DESCRIPTIONS OF

INKS!

Varnishes and Sizes

FOR PRINTERS' USE.

New York Office, - 194 William Street.

Philadelphia Office, - 434 Walnut Street.

Chicago Office, - 417 Dearborn Street.

Denver Office, - 1516 Arapahoe Street.

TRADE NOTES.

THE Philadelphia Exhaust Ventilator Co. send us a circular of cooling fans. The fans are made in several styles that all needs may be suited. Address 520 Commercial street, Philadelphia.

THE contract for the two large duplex gas compressors and boilers for the Kentucky Rock Gas Co. was placed with the Clayton Air Compressor Works, No. 43 Dey street, New York. These compressors have a capacity of 2,000,000 cubic feet per day, and are to compress the natural gas at the wells to a pressure of 200 pounds per square inch and force at a distance of 32 miles to Louisville, for light and power purposes.

THE Rochester Machine Tool Works, Limited, builders of the Acme automatic safety engines, which use kerosene oil as fuel, of Rochester, N. Y., write: "We are pleased to note that our sales of Acme oil-burning engines and boilers are just about double what they were one year ago, and the trade is extending into new territory. Our new marine boiler takes on sight."

THE Textile Manufacturers' Directory for 1899, the 19th edition, is just published. The directory contains the names of all woolen, cotton, silk, jute, flax and linen manufacturers of the United States and Canada; also all dealers and brokers in raw material, dry goods commission merchants and jobbers, city offices and agencies of manufacturing companies, and dyers, bleachers, finishers and print works of textile fabrics. The directory gives the South, with its wonderful development, deserved attention. The usefulness of such a book to the textile trade is beyond question. What adds greatly to the handiness of the directory is a complete index. Published at 320-322 Broadway, New York, by H. H. Babcock. Price, \$5.00.

LAKE TOURS TO PICTURESQUE MACKINAC is one of the interesting summer excursion publications of the season. It is a very nicely and finely illustrated book and well worth perusing. The Detroit & Cleveland Steam Navigation Co., of Detroit, issues it.

THE Timberman's Vest-pocket Inspection Book, issued by the Timberman, Chicago, is a useful little book to the lumbering interests. It contains rules of the Chicago lumber market, with the different grades and kinds of lumber, advertisements of prominent lumber dealers, wood-working machinery, etc.

AMONG the recent purchasers of the Patent Friction Covering for pulleys, now being manufactured by the National Pulley Covering Co., of Baltimore, are: Eagle Lock Co., Terryville, Conn.; W. H. Hyde & Son, Newark, N. J.; J. E. Clarke, Columbia City, Ind.; Jas. Clarke, Warren, Pa.; A. E. Spink & Co., Washington, Ind.; J. G. Hoffman & Sons, Wheeling, W. Va.; Smelting Works, Salt Lake City, Utah; G. W. Campbell & Sons, Kane, Pa.; Eagle Pencil Co., New York; Schultz Bros., Philadelphia, Pa. The company have recently appointed S. C. Nightingale & Childs, 134 Pearl street, Boston, their agents for New England.

PROBABLY the largest shipment of water wheels ever made at one time to one concern has just been made by the Stillwell & Bierce Manufacturing Co., of Dayton, Ohio, manufacturers of the Victor turbine wheel. This shipment consisted of 11 car loads of Victor turbines and other machinery to the Kimberly & Clark Co., of Neenah, Wis., for their new pulp and paper mill at the "Cedars," and five more car loads are to follow.

THE Ingersoll-Sergeant Rock Drill Co., 10 Park Place, New York, sends out an instructive and useful circular in regard to

its drills. This circular is a special one that accompanies the exhibit of the company at the Paris exposition and is profusely illustrated to explain the manifold uses of the drill.

THE Ball Engine Co., in addition to their enormous trade in furnishing electric light engines, are having quite a demand for engines for operating electric street railroads, and have furnished the following roads with engines: Austin Water, Light & Power Co., Austin, Texas; Highland Park Electric Railway Co., Detroit, Mich.; Eckington & Soldiers' Home Electric Railway Co., Washington, D. C.; South Side Street Railway Co., Cleveland, O.; Central City Passenger Railway Co., Louisville, Ky.; Mt. Auburn Incline Railway Co., Cincinnati, O.; Cincinnati Street Railway Co., Cincinnati, O.; Akron Electric Railway Co., Akron, O.; Erie City Street Railway Co., Erie, Pa.; Melbourne Exposition Electrical Tramway, Melbourne, Australia; Box Hill & Doncaster Electrical Tramway, Melbourne, Australia; Binghamton Electric Railway Co., Binghamton, N. Y.; Lynn Electric Railway Co., Lynn, Mass.; Electro-Automatic Transit Co., Baltimore, Md.; Buffalo Street Railway Co., Buffalo, N. Y.; New Birmingham Street Railway Co., New Birmingham, Texas; Vandewater Electric Street Railway Co., Windsor, Ont.; Atlantic City Street Railway Co., Atlantic City, N. J.; Williamsite Bridge Street Railway Co., Portland, Oregon; Metropolitan Passenger Railway Co., Portland, Oregon; Bay Ridge Reservoir Company Electric Railway, Bay Ridge, Md.

Pulleys, Shafting, &c.

Self-Oiling Hangers.

Latest Designs. Correct Proportions.
LARGE STOCKS ON HAND FOR IMMEDIATE SHIPMENT.



Improved Clamp Conplings, fastened or loosened by twisting a single screw.
GIANT GRIP.

My Catalogue "C" contains useful information regarding speed, power, &c. Send for it.



Lathes for the Million.

Improved Twist Machines.—One set of cutters will make 800 different kinds of twist.

Corner Block Machines.—25 perfect blocks a minute. No sandpapering. Worked by a boy. Make money from your waste lumber.

Bung Machines.—120,000 perfect bungs cut and compressed in 10 hours. Only one operator. These and many more

MONEY-MAKING MACHINES described in my Catalogue "A."

Sent free to those who name this paper.

P. PRYBIL, 467 W. 40th St., N. Y. City.

HARRISON SAFETY BOILERS.

Combine Maximum Safety.
Economy of Fuel, Durability.

Merits Proven by Over
Twenty Years' Practical Work.

All sizes from 4
H. P. to 240 H. P.

Ease of Transportation, Erection and Repair.
Full Particulars, Drawings and Estimates mailed upon application.

HARRISON SAFETY BOILER WORKS, Germantown Junction, Philadelphia, Pa.
Southern Office, 9 to 13 N. Pryor street, Atlanta, Ga.

NORTON EMERY WHEEL CO.



Complete Illustrated Catalogue
mailed free upon application.

MANUFACTURERS OF—

EMERY and
Corundum Wheels,
Emery Wheel Machinery

AND NUMEROUS SPECIALTIES.

THOS. K. CAREY & BROS.
26 Light Street, Baltimore. Southern Agents.



Waltham Emery Wheel Co., Manufacturers,
WALTHAM, MASS.

By our various processes we can guarantee satisfaction for the greatest variety of work.

EMERY WHEEL MACHINERY,
EMERY, CORUNDUM, Etc.

These wheels can be bought of our agents or ordered direct.



At Last! A very Simple and Cheap System of Lithography!
Without Stone or Press. Easily Worked by a Boy.

The Black Autocopyist

Furnishes Excellent Copies in Permanent Black and Solid Line of anything written or drawn with any pen using our Special Fluid Ink. Energetic Men Wanted for State Agents.

M. A. BYRNES, 166 William Street, New York.

WATER AND GAS BONDS NEGOTIATED.

The COMMONWEALTH CONSTRUCTION CO., Contracting Engineers,
P. O. Box 184, PHILADELPHIA, PA.

Water Works, Gas Works, Electric Light Plants and Sewerage Constructed in all parts of the United States. We offer special inducements to Cities, Boroughs and Towns. Special attention given to the remodeling of Water Works, &c.

PLANS, ESTIMATES AND SPECIFICATIONS FURNISHED.

T. S. MIDDLETON, Consulting Engineer.

SMITH, VAILE & TOMPKINS,

INCORPORATED.

Engineers and Contractors.

We will Undertake to Build

Cotton Seed Oil Mills,

Complete, or we will furnish the Machinery for Oil Mills.

Presses, Heaters, Rolls, Formers,
Hydraulic Pressure Pumps,
Engines, Boilers, Linters, Reels, &c.

CHARLOTTE, N. C., and DAYTON, O.

We have Contracts to date for the following Mills:

Eufaula Oil & Fertilizer Co., Eufaula, Ala.
Merchants & Planters' Oil Co.,
Houston, Texas

Capital City Oil Co., Baton Rouge, La.
Charlotte Oil & Fertilizer Co.,
Charlotte, N. C.

SIMPKIN & HILLYER, Consulting and Constructing Mechanical Engineers.

WM. SIMPKIN, A. S. M. E., late Superintendent Tanner & Delaney Engine Co., and the Richmond Locomotive & Machine Works.
E. C. HILLYER, M. E., Proprietor of the Warwick Iron Works, and formerly Chief Designer Patapsco Bridge Works, Baltimore.

Plans, Specifications and Estimates for any class of Engineering Work, Cotton and other Mills. A specialty of Economical Steam plants, rope and belt driving. Gas, Water and Cresote Works, Electric Light Plants. Working Drawings Prepared. Locomotives, narrow gauge and standard, for all purposes. Street Motors, Cars, &c.

Valuations made. Arbitrations attended. Engines indicated. Castings supplied. Repair work promptly attended to. Write for circular. Correspondence solicited.

Works—Warwick Iron Works, Newport News, Va., P. O. Box 2.

All repairs should be sent to works.

General Office—1105 Main St., Richmond, Va.

P. O. Box 315.

Stilwell's Patent Lime HEATER AND FILTER Combined.

The Only Lime Extracting Heater That Will Prevent Scale in Steam Boilers.

Removing all impurities from the water before it enters the boiler.

Thoroughly Tested Over 3,000 of Them in Daily Use.

This cut is a facsimile of the appearance of a No. 5 Heater at work on ordinary lime water, when the door was removed after the Heater had been running two weeks. Illustrated Catalogue Free.

STILWELL & BIERCE MFG. CO., DAYTON, O.



FOR SALE.

1 System of Carpet Warp and Twine Machinery, capacity 7,500 lbs. per week.

1 Kitson Opener.

1 Kitson 3 Beater Lapper.

15 full Roller Gambrell Cards, 36 in.

3 Whittin Hat. Heads.

2 Heads, drawing 10 del. each.

2 Lowel Slubbers, 32 s. indies each, 12x6 in.

2 Fine Speeders, 7x3 1/2, 72 spindles each.

11 Spinning Frames, 1,200 spindles; 2 in. ring.

6 in. travers. Rabeth spindle.

5 Twisters, 60 spindles each, 3 1/2 x 5 in.

2 72 in. Reels.

2 Ball Winders, 12 and 16 spindles.

1 60 spindle, 6x4 1/2 travers. Spooler.

Presses, Spools, Bobbins, Cans, Bolts, Shafting,

all complete to run.

Will sell at a bargain.

L. GODFREY & CO.
PROVIDENCE, R. I.

MAGNOLIA METAL.

ENDORSED BY

United States & German Governments.

Best Anti-Friction Metal

FOR

Steamship, Car and All Machinery Bearings.

MAGNOLIA ANTI-FRICTION METAL CO.

Owners and Sole Manufacturers,

LONDON OFFICE:
75 Queen Victoria Street.

74 Cortlandt St., New York.

The Continental Iron Works,

WEST AND CALVER STREETS, } BROOKLYN, N. Y.
Near 10th and 23d Sts. ferries from N. Y.

THOS. F. ROWLAND, Pres.

Sole Manufacturers in the United States of



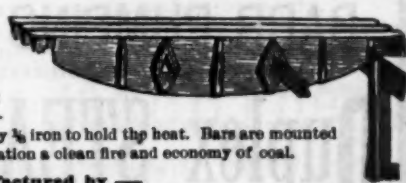
Corrugated Flues

FOR

Steam Boiler Furnaces.

Under their own patents and those of Samson Fox, Leeds, Eng. Made in sizes from 28 inches to 60 inches diameter, with flanged or plain ends.

The Corey Grate Bar.



This grate consists of single bars 3/4 thick at top and 1/2 at bottom, sides being concaved, and gives 3/4 inch air space, with only 1/4 iron to hold the heat. Bars are mounted on vibrating bearings, insuring by its operation a clean fire and economy of coal.

— Manufactured by —

Phenix Iron Foundry, Providence, R. I.

McLANAHAN & STONE, Engineers and Manufacturers,
GAYSPORT FOUNDRY, HOLLIDAYSBURG, PA.

Blast Furnace, Rolling Mill and Heavy Castings and Machinery for all purposes.

ORE JIGS, IMPROVED ORE WASHERS,
with Revolving Screens and Picking Tables.

Elevators and Conveyors, Etc.

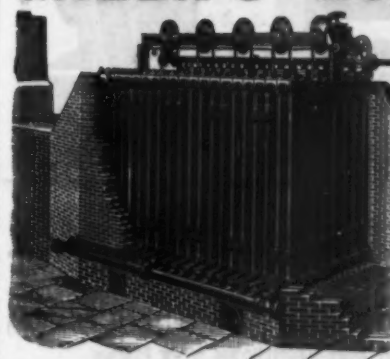
Complete Plants for washing HEMATITE ORES at Least Cost.

BOB'S AUTOMATIC STEAM FLUE CLEANER.

Acknowledged and recommended by Engineers to be the most perfect steam flue cleaner in use. Advantages—1. It has no springs or screws to break. 2. The steam can be turned on full head without being wasted. 3. It delivers perfectly dry steam through the tubes, leaving them perfectly dry and clean. A trial is all we ask. Manufactured by J. REGESETER & SONS, BALTIMORE, MD.



GREEN'S ECONOMIZER.



The only APPARATUS that will deliver the FEED WATER at over 213° Fah. by utilizing WASTE HEAT, usually lost in stack. SAVES 25 PER CENT. OF COAL.

Send for Illustrated Book, Free,

FROM

ED. GREEN & SON, Limited,

Patentees and Makers,

53 BROADWAY, NEW YORK.

Applied to 150,000 Boilers.

LEWIS J. MILLER,
Philadelphia, Pa.

MILLER & BIERCE,

WILL W. BIERCE,
Memphis, Tenn.

Engineers and Contractors



Sole Agents for

Lewis Miller's Improved Steam and Hydraulic Cotton Compress,
(Lewis Miller's and John F. Taylor's Patents.)

The most powerful, economical, and the fastest working Compress built. The only Compress in the world that will load cars and vessels to their full tonnage.

Also Agents and Manufacturers of Steam Engines, Water Engines, Pumps, Boilers, and Heavy Machinery in General.

OFFICES:

Memphis, Tenn., 327 2d Street.

Chester, Pa., Front and Penn Sts.

Philadelphia, Pa., 4016 Aspen Street.

Wood-Working Machinery.

Circular Saw Mill Machinery, Clapboard and Lath Machinery, Planers, Matchers and Molding Machines, Band and Scroll Saws, Sash, Blind and Door machinery a specialty. Surfacing Machines, Re-Saws, "Buzz" Planers and Veneer Cutting Machinery, Spoke and Axe Handle and Bobbin Machinery, Saws and Belting and General Mill Supplies. Send for catalogue and estimates, stating exactly what is required. Largest machinery dealers in the United States.

W. E. DREW, Agent,

S. C. FORSAITH MACHINE CO.

Machinists and General Machinery Dealers, Manchester, N. H.

Corrugated Metal Gaskets.

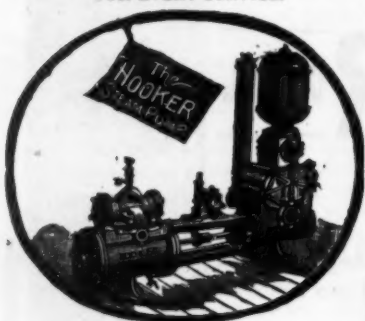
[PATENTED.]



Are the most reliable for flange connections; made plain, oval, square and irregular for Pipes, Cylinders, Valves and Chimes. Is not affected by water, steam, gas, oil, vapors or acid solutions.

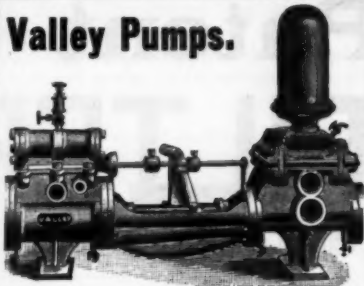
U. S. MINERAL WOOL CO.

2 Cortlandt St., New York

The Best Steam Pumps
FOR EVERY SERVICE.

MANUFACTURED BY
The Hooker-Colville Steam Pump Co.
1101 N. 2d STREET,
ST. LOUIS, MO.

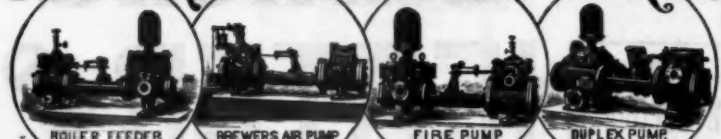
Send for Catalogue.

Valley Pumps.

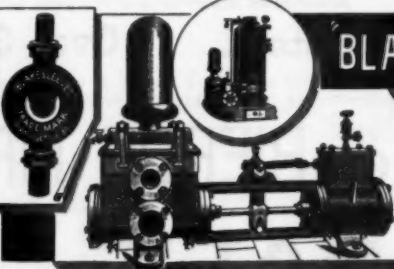
Valley Pump Co., Easthampton, Mass.

WELL DRILLING Machinery & Tools

ST. LOUIS VISE & TOOL CO.,
Catalogue Free: ST. LOUIS, MO.

DEAN BROS' STEAM PUMP WORKS.

INDIANAPOLIS, IND.
SEND FOR CATALOGUE AND PRICES.

**BLAKESLEE MFG. CO.**

DU QUOIN ILL.

SEND FOR CATALOGUE

STEAM PUMPS.

We have just issued a new illustrated catalogue of our Steam & Jet Pumps. A copy will be mailed free on application.

THE ORIGINAL IMPROVED Baldwinville Centrifugal Pump.

Sent on trial for thirty days to responsible parties. Our patterns are new and of the best design. Our shop has been fitted up with new tools and appliances of the best manufacture. Being practical machinists for the past twenty-five years, we feel confident we can give the best satisfaction, and therefore we guarantee our work as to prices and quality in every respect. More in use than any other make. Correspondence solicited.

BOGGS & CLARKE

125 and 126 N. Clinton St., SYRACUSE, N. Y.



BOGGS & CLARKE, SYRACUSE, N. Y.

**HYDRAULIC JACKS.**

BEST IMPROVEMENTS. MOST STYLES.

Hydraulic Presses, Hydraulic Pumps, Valves & Fittings,

Vreeland's Transfer Jacks, Hydraulic and Screw Punches,

LEVER PUNCHES and SHEARS.

WATSON & STILLMAN

—210 E. 48d Street, NEW YORK.—

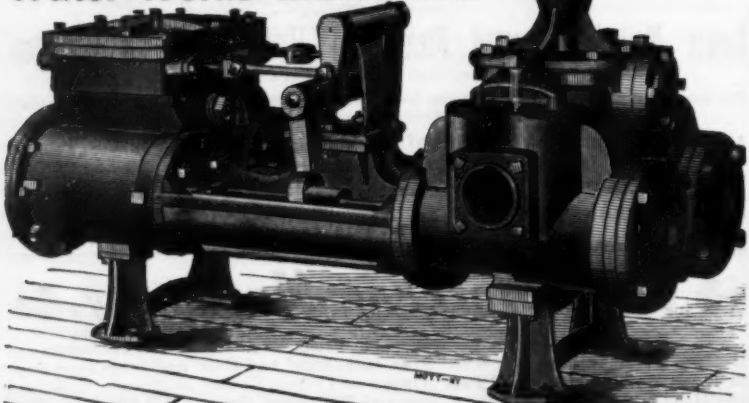
THE IMPROVED SMITH & VAILE

—Single, Duplex and Compound—

STEAM PUMPS

FOR EVERY DUTY.

Water-Works Machinery.



18 in. Steam Cylinder, 30 in. Water Cylinder and 24 in. stroke Improved Low-Service Pump.

The Smith & Vaile Co.

—DAYTON, O. and NEW YORK.—

112 LIBERTY STREET.

Plans and Estimates for Hydraulic and Oil Mill Machinery on Application.

EASTERN & SOUTHERN AGENTS:

THOS. K. CAREY & BROS., 21 S. Charles Street, Baltimore, Md.
G. W. STORER, 149 N. 3d Street, Philadelphia, Pa.
D. A. TOMPKINS CO., Charlotte, N. C., and Atlanta, Ga.



THE BUFFALO STEAM PUMP CO.
MANUFACTURERS OF STEAM PUMPS
FOR ALL SERVICES
BUFFALO, N. Y.

BRANCH OFFICES—520 Oliver St., St. Louis, Mo. and 68 and 70 South Canal Street, Chicago, Ill.

A. Aller, New York; H. I. Snell, Philadelphia, Pa.; Shaw, Kendall & Co., Toledo, Ohio; Kennedy & Pierce, Denver, Col.; Sherriff & Ashworth, Pittsburgh, Pa.; Columbus Supply Co., Columbus, Ohio; Forbes Liddell & Co., Montgomery, Ala.; J. Baur, Manistee, Mich.; W. A. Wain, Detroit, Mich.; Wickes Bros., East Saginaw, Mich.; A. Leitelt, Grand Rapids, Mich.; Rundle, Spence & Co., Milwaukee, Wis.; Joshua Hendy, San Francisco, Cal.; George Worthington Co., Cleveland, Ohio; Flynn & Emrich, Baltimore, Md.; Bailey & Leiby, Charleston, S. C.; O. B. Goodwin, Norfolk, Va.; Walworth Supply Co., Boston, Mass.; Leeds-Barratt Co., Minneapolis and St. Paul, Minn.; D. Elsingher, Scranton, Pa.; Dugan Bros., Salem, Ore.; Wm. Gardner & Co., Portland, Ore.; S. C. Brooks, Eau Claire, Wis.; J. J. Howden, Muskegon, Mich.; John Hutchinson Mfg. Co., Jackson, Mich.; Port Huron Steam Fitting Co., Port Huron, Mich.; E. F. Cooley, Lansing, Mich.; Shelhorn & Rick, Cheboygan, Mich.; Tennessee Range & Mfg. Co., Nashville, Tenn.

**THE LAIDLAW & DUNN CO.**

PUMPS OF EVERY DESCRIPTION. CINCINNATI, O. SEND FOR CIRCULAR.

**GEO. F. BLAKE MFG. CO.**

BUILDERS OF STEAM AND POWER

111 Federal Street, Boston.

95 and 97 Liberty St., N. Y., 535 Arch St., Philadelphia.

BARR PUMPING ENGINE CO.

—MANUFACTURERS OF—

Duplex STEAM Pumps

IN ALL SIZES, And Adapted for Every Service.

GERMANTOWN JUNCTION, PHILADELPHIA, PA.

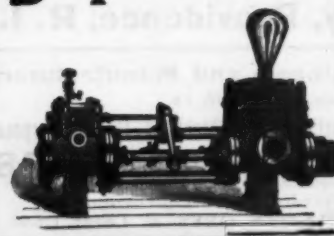
74 Federal Street, BOSTON.

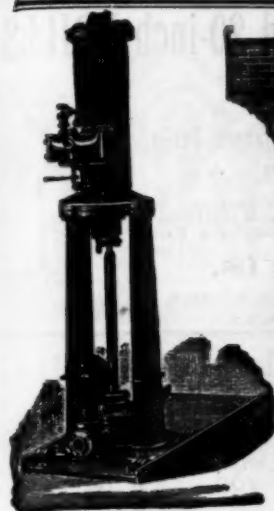
126 Liberty Street, NEW YORK.

35 Fifth Avenue, CHICAGO.

Baltimore Agency, REUTER & MALLORY.

Large stock of small and medium Pumps constantly on hand for immediate delivery. Write for prices and discounts. Estimates for large or SPECIAL PUMPING MACHINERY furnished on application.





ARTESIAN WELL PUMPS.



MINING PUMPS.

CAMERON STEAM PUMPS.

PUMPS FOR
BOILER FEEDING
MINES
REFINERIES,
BREWRIES,
TANNERIES,
IRRIGATING,
FIRE PURPOSES,
RAILROADS &
FILLING TANKS.
CRANK & FLY WHEEL
& VACUUM PUMPS

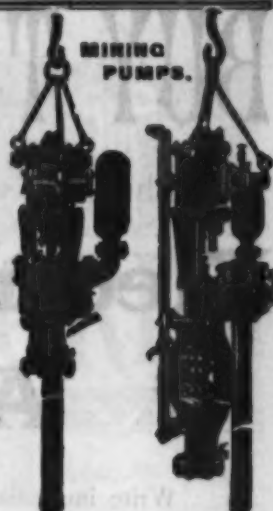
SEND FOR ILLUSTRATED
CATALOGUE A.



SIMPLE,
COMPACT,
DURABLE,
EFFICIENT.

ADAPTED TO ALL
PURPOSES.

NO OUTSIDE
VALVE GEAR.



PISTON PATTERN. PLUMBER PATTERN.

The A. S. Cameron Steam Pump Works,
FOOT OF EAST 23D STREET.
NEW YORK.

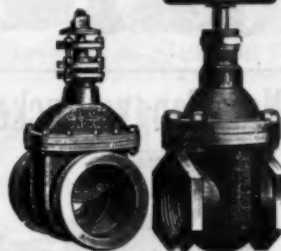
LUDLOW VALVE MFG. CO.

Office and Works: 938 to 954 River St., and 67 to 83 Vail Ave., Troy, N. Y.

VALVES

Double and Single Gate, 1/4 inch to 48 inch.; outside and inside Screws, Indicators, etc., for Gas, Water, Steam, Oil.

SEND FOR CIRCULAR.



Also Fire Hydrants. Yard and Wash Hydrants. Check and Foot Valves.

CHATTANOOGA FOUNDRY & PIPE WORKS.

DAVID GILES, Pres.

C. S. BEXTER, Vice-Pres.

M. LEWELLYN, Secy. and Treas.

Successors to B. GILES & CO., Chattanooga, Tenn., Manufacturers of



Also Castings and Pipe
in terms of Every Descrip-
tion made to order.

H. E. McWANE, President and General Manager.

W. D. CAMPBELL, Secretary and Treasurer.

THE CLAMORGAN COMPANY, Proprietors of

HILL CITY PIPE WORKS



Manufacture all kinds of Pipe
Furnace, Coking and Mining Ma-
chinery; Boilers, Engines, Tram
way and Construction Car Castings
and Tobacco Machinery, &c.
Prices on application

LYNCHBURG, VA.

The Addyston Pipe & Steel Co.

CINCINNATI, OHIO.

PROPRIETORS OF THE BUSINESS AND WORKS FORMERLY OPERATED BY
THE CINCINNATI AND NEWPORT IRON AND PIPE COMPANY.

MATTHEW ADDY,
President.
Geo. P. WILKIN,
Vice-President.
Dwight KINNEY,
Sec. and Treas.
W. L. DAVIS,
Contracting Agt.
J. K. DIMMICK,
Gen. Supt.



WORKS:
Addyston, O.
Newport, Ky.

For WATER, GAS, Railroad and Turnpike CULVERTS and SEWERS.

BRANCH CASTINGS OF ALL DESCRIPTIONS.

HYDRAULIC CYLINDERS. MACHINE CASTINGS and FLANGE PIPE.

Laundry Machinery.

Largest Stock. Latest Improvements. Fullest Line.



Washing Machines,
Ironing Machines,
Centrifugal Machines,
Mangles, Wringers, etc.
BOILERS AND ENGINES.
—OUTFITS FOR—
Hotels and Public Institutions
—A SPECIALTY.—

The A. M. DOLPH CO.

224 Washington Street,
CHICAGO, ILL.

Cor. 9th St. and Freeman Ave.,
CINCINNATI, O.

BEFORE SELECTING A
Steam Pump

FOR BOILER FEEDING,
Brewery, including Air Pumps, Mining, Fire or
other purposes, get description and prices of
THE CANTON STEAM PUMP CO.

—CANTON, O.—

Manufacturers of Miller, Duplex and other
styles of STEAM PUMPS. Strictly first-class
and guaranteed. Catalogue
free. Air Pumps suitable for
furnishing air blast for burn-
ing petroleum.



UPRIGHT DRILLS

A SPECIALTY.
ALL SIZES

Patent Quick Return

—AND—
Latest Improvements.

For Catalogues
and Prices,
address,

BICKFORD
DRILL CO.
Cor. Front & Pike Sts.
CINCINNATI, O.

If you wish to keep posted on the progress of the South, read the MANUFACTURERS' RECORD. Price \$2.00 a year.

WHY THIS IS PUT HERE!

NEW PULSOMETER,

For the reason that if you are
interested in raising water or other
liquids by steam power, we wish to
call your attention to the
THE CHEAPEST AND BEST STEAM PUMP IN THE MARKET. PRICES LOWER THAN ANY OTHER.

More Efficient, Simple, Durable, and more Economical, both as to
running expenses and repairs, than any other Steam Pump.

For Mining, Railroad or Steamboat use, Paper Mill, Chemical or Gas Works, Tannery,
Brewery or Sugar Refineries, Draining Quarries, Cellars or
Plantations, Irrigating or Hydraulic Mining.

Call or write for our new 32 page Illustrated Descriptive Book containing Full Particulars,
Reduced Net Prices, and hundreds of A-1 Testimonials. Mailed Free.

Pulsometer Steam Pump Co., 120 Liberty St., N. Y.

PUMPS

We manufacture direct acting
Duplex and Crank and Fly Wheel
Steam Pumps for all services.
Brass Founders and manufact-
urers of Brass and Iron Body
goods. Straightway valves, etc.
Iron Pipe and Fittings and Mill
Supplies. Boiler Feed Pumps
a specialty. Address

—THE JOHN H. McCOWAN CO.—

42, 44, 46 Central Ave., CINCINNATI, O. Branch House, 1425 E. Main St., RICHMOND, VA.

CONSTRUCTION TOOLS

NEW ERA 10 CONTRACTORS

WELL TOOLS

Railroad Builder,
Wagon Road Grader,
Wagon Loader
and Ditching

Wheels. It will plow in an acre
in 10 hours and a cord of
wood in 1-2 to 3-4 hours per
yard, or will load 600 wagon
loads in same time.

WELL BORING TOOLS
IN THE WORLD

CATALOGUE ON APPLICATION
F. C. AUSTIN MFG. CO.



GENUINE
NEEDS & MANUFACTURES
BEAR OUR
REGISTERED MARKS

PHOSPHOR-BRONZE
INGOTS, CASTINGS & MANUFACTURES
THE PHOSPHOR BRONZE SMELTING CO. LIMITED
512 ARCH ST. PHILADELPHIA PA. U.S.A.
ORIGINAL MANUFACTURERS OF PHOSPHOR-
BRONZE IN THE UNITED STATES AND OWNERS
OF THE U.S. PATENTS

THE MANUFACTURERS' RECORD

IS THE FOREMOST EXPONENT OF THE INDUSTRIAL
INTERESTS OF THE SOUTH.

BUY THE BRUSH

Then you will have the best of all

Electric ★ Apparatus

Write immediately for a catalogue regarding

Arc AND Incandescence, BRUSH LIGHTS AND MOTORS.

The Brush Electric Co.

CLEVELAND, O.

CHATTANOOGA, TENNESSEE.

CHATTANOOGA SAW WORKS.

MANUFACTURERS OF
SUPERIOR SAWS.

MOULDING KNIVES OF EVERY DESCRIPTION.
ESPECIAL ATTENTION
GIVEN TO THE REPAIRING OF ALL KINDS OF SAWS.

A. WYCKOFF & SON, ELMIRA, N. Y.

MANUFACTURERS OF
WOOD WATER PIPE



FOR
Coal and Iron Mines
COKE WORKS
AND
General Water
SUPPLY.
SEND FOR
CATALOGUES AND
PRICES.

THE STANDARD TOOL COMPANY, Cleveland, Ohio.



Manufacturers of Bit Stock Drills, Straight Shank Drills, Taper Shank Drills, Taper Reamers, Milling Cutters, Chucks, Ratchet Drills, Screw-Drivers, Bits, Twist Drill Grinding Machines.

"The MANUFACTURERS' RECORD is the Most Widely-Quoted Industrial Paper in the World."

KEY SEATING MACHINES and 20-inch DRILLS

A SPECIALTY.

Send for list of

New and Second-Hand Lathes, Planers, Drills,
Engines and Boilers.

Or anything in Machinists' Tools or Supplies. We will be pleased to quote prices on MACHINERY DELIVERED in any part of the United States. Write for prices and catalogue to

W. P. DAVIS,

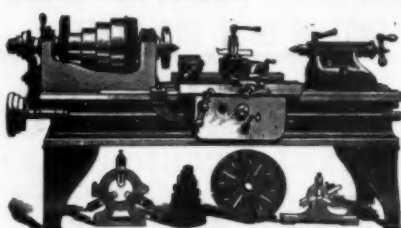
Office and Salesroom, 169 and 171 Mill Street, Rochester, N. Y.
WORKS AT NORTH BLOOMFIELD, N. Y.



Shapers, Engine Lathes AND Drills. LODGE, DAVIS & CO.

CINCINNATI, O.

New York, 115 Liberty Street. Boston, 23 and 25 Purchase St. Chicago, cor. Lake and Canal Sts. Philadelphia, 19 N. 7th St.
WRITE FOR PRICES. IT WILL PAY YOU.



17", 19", 21", 24", 27" ENGINE LATHES.

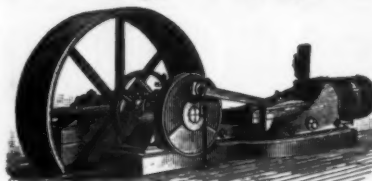
15 & 20-inch
CRANK.
20-26-32 inch
GEARED
SHAPERS.



UPRIGHT DRILL.

New Tangye Buckeye Automatic Cut-Off Engines

25 TO 1,000 H. P.



These engines are the combined results of long experience with automatic cut-off regulation and most careful revision of all details. They are designed and constructed for heavy and continuous duty at medium or high rotational speeds. Highest attainable economy in steam consumption and superior regulation guaranteed. Self-contained Automatic Cut-off Engines, 15 to 100 horse-power, for driving dynamo machines, a specialty. Illustrated circulars, with various data as to practical steam engine construction and performance, free by mail. Address

IN USE, OVER 1,000.
SALE AGENTS—Phila. & Wiggs Machinery Co., Birmingham, Ala.; Jas. P. Creighton, Louisville, Ky.; N. W. Robinson, 134 Washington Street, Chicago, Ill.
Buckeye Engine Co., Salem, Ohio.

E. E. GARVIN & CO.

Machinists, Manufacturers

and Dealers,

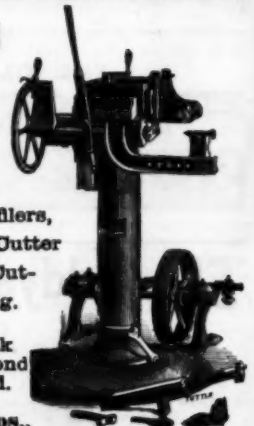
LAIGHT & CANAL STS.,
NEW YORK.



Lathes, Planers, Drills,
Milling Machines, Profilers,
Screw Machines, Cutter
Grinders, Gear Out-
ting and Milling.

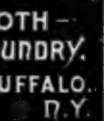
Index Drilling and Rack
Cutting. A good line of Second
Hand Tools always on hand.

A line of above tools can be seen at
THOMAS H. CAREY & BROS.,
26 Light St., Baltimore Agents.



SMALL GEAR CUTTER.

SHEPARD HARDWARE CO.



LIGHTNING
ICE CREAM
FREEZERS
LATEST & BEST
QUEEN CITY PRESS.
FOR FRUIT WINE, JELLY &
BEANS. THEM ALL
BLIND HINGES GATE HINGES &

MAMMOTH
FOUNDRY.
BUFFALO,
N. Y.



Buffalo FORGES

BLOWERS & EXHAUSTERS.
HEATING FURNACES, HAND BLOWERS.
AND BLACKSMITH DRILLS.

BUFFALO FORGE CO.
BUFFALO, N. Y.

BEFORE PURCHASING ELSEWHERE WRITE US FOR CATALOGUE AND PRICES UPON

Drag Scrapers, Wheel Scrapers, Grading Plows, Dump Carts,

Steel Sinks, Wheelbarrows of all kinds.

The Kilbourne & Jacobs Manfg. Co., Columbus, Ohio, U. S. A.

